

# **STIC Search Report**

## **Biotech-Chem Library**

**STIC Database Tracking Number: 134483**

**TO: Zohreh Fay**  
**Location: 3a61 / 3c70**  
**Wednesday, October 13, 2004**  
**Art Unit: 1614**  
**Phone: 272-0573**  
**Serial Number: 10 / 729222**

**From: Jan Delaval**  
**Location: Biotech-Chem Library**  
**Rem 1A51**  
**Phone: 272-2504**

**jan.delaval@uspto.gov**

### **Search Notes**

Access DB# 134483

# SEARCH REQUEST FORM

Scientific and Technical Information Center

Requester's Full Name: Zohreh Fayazi Examiner #: 66646 Date: 10/5/04  
Art Unit: 1614 Phone Number: (571) 272-9723 Serial Number: 101422, 224729, 222  
Mail Box and Bldg Room Location: 3C70 Results Format Preferred (check): PAPER DISK E-MAIL

If more than one search is submitted, please prioritize searches in order of need.

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept of novelty of the invention. Define any terms that may have a special meaning. Give examples of relevant citations, authors, etc. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: Pharmaceutical composition  
Inventors (please provide full names): Gyurik, Robert; Klinko Peter;  
Cellier, Robert; Helberg Mark  
Earliest Priority Filing Date: 4/1/02 12/6/02

\*For Sequence Searches Only\* Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.

please search the claimed use.

Jan 10 2005  
1010

## STAFF USE ONLY

	Type of Search	Vendors and cost where applicable
Searcher: <u>Jan</u>	NA Sequence (#) _____	STN <input checked="" type="checkbox"/>
Searcher Phone #: <u>42504</u>	AA Sequence (#) _____	Dialog _____
Searcher Location _____	Structure (#) <input checked="" type="checkbox"/>	Questel/Orbit _____
Date Searcher Picked Up: <u>10/13</u>	Bibliographic _____	Dr. Link _____
Date Completed: <u>10/13</u>	Litigation _____	Lexis/Nexis _____
Searcher Prep & Review Time _____	Fulltext _____	Sequence Systems _____
Turned Prep Time: <u>20</u>	Patent Family _____	WWW/Internet _____
Online Fee: <u>440</u>	Other _____	Other (specify) _____

=> fil reg

FILE 'REGISTRY' ENTERED AT 08:23:35 ON 13 OCT 2004

USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

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Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 11 OCT 2004 HIGHEST RN 760932-70-5

DICTIONARY FILE UPDATES: 11 OCT 2004 HIGHEST RN 760932-70-5

TSCA INFORMATION NOW CURRENT THROUGH MAY 21, 2004

Please note that search-term pricing does apply when conducting SmartSELECT searches.

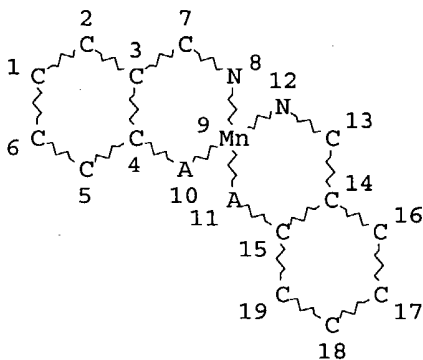
Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:

<http://www.cas.org/ONLINE/DBSS/registryss.html>

=> d sta que l26

L20 STR



NODE ATTRIBUTES:

DEFAULT MLEVEL IS ATOM

DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

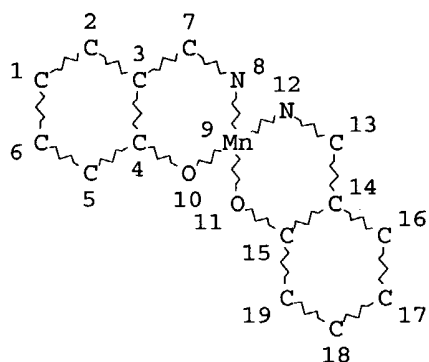
RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS 19

STEREO ATTRIBUTES: NONE

L22 4372 SEA FILE=REGISTRY SSS FUL L20

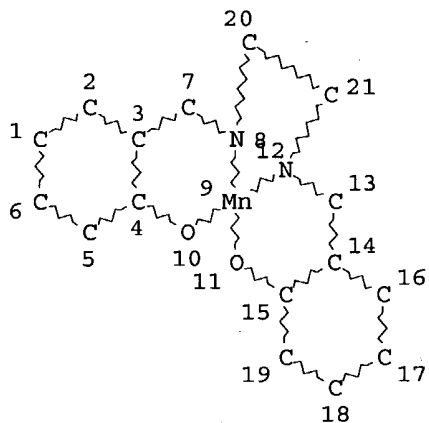
L23 STR



NODE ATTRIBUTES:  
 DEFAULT MLEVEL IS ATOM  
 DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:  
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 NUMBER OF NODES IS 19

STEREO ATTRIBUTES: NONE  
 L24 4306 SEA FILE=REGISTRY SUB=L22 SSS FUL L23  
 L25 STR



NODE ATTRIBUTES:  
 DEFAULT MLEVEL IS ATOM  
 DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:  
 RING(S) ARE ISOLATED OR EMBEDDED  
 NUMBER OF NODES IS 21

STEREO ATTRIBUTES: NONE  
 L26 2197 SEA FILE=REGISTRY SUB=L24 SSS FUL L25

100.0% PROCESSED 2631 ITERATIONS  
 SEARCH TIME: 00.00.01

2197 ANSWERS

=> d his

(FILE 'HOME' ENTERED AT 07:49:48 ON 13 OCT 2004)

## SET COST OFF

FILE 'HCAPLUS' ENTERED AT 07:50:03 ON 13 OCT 2004

L1 1 S US20040116402/PN OR (US2003-729222# OR WO2003-US38677 OR US20  
E AU PA  
E KLIMKO P/AU  
L2 50 S E4-E6  
E COLLIER R/AU  
L3 329 S E3,E8,E9  
L4 67 S E28,E32-E35  
L5 1 S E45  
E HELLBERG M/AU  
L6 91 S E3,E6,E8-E10  
E ALCON/PA,CS  
E ALCOM/PA,CS  
L7 883 S E3-E10 OR ALCON?/PA,CS  
L8 35841 S (SUPEROXIDE OR SUPER OXIDE) () (DISMUTASE OR DIS MUTASE)

FILE 'REGISTRY' ENTERED AT 07:53:30 ON 13 OCT 2004

L9 1 S 9054-89-1

FILE 'HCAPLUS' ENTERED AT 07:56:03 ON 13 OCT 2004

L10 27072 S L9  
L11 242 S PEROXINORM OR PEROXIDE DISMUTASE OR PALOSEIN OR ARTOLASI OR C  
L12 1 S SUPERPHYCODISMUTASE OR SUPERPHYCO DISMUTASE  
L13 681 S (EC OR "E C"),()1 15 1 1  
L14 36604 S L8,L10-L13  
L15 3 S L1-L7 AND L14  
L16 3 S L1,L15  
SEL RN

FILE 'REGISTRY' ENTERED AT 07:57:21 ON 13 OCT 2004

L17 15 S E1-E15  
L18 STR  
L19 39 S L18  
L20 STR L18  
L21 50 S L20  
L22 4372 S L20 FUL  
SAV L22 FAY729/A  
L23 STR L20  
L24 4306 S L23 FUL SUB=L22  
SAV L24 FAY729A/A  
L25 STR L23  
L26 2197 S L25 FUL SUB=L24  
SAV L26 FAY729B/A  
L27 2175 S L22 NOT L26  
L28 0 S L17 AND L22

FILE 'HCAPLUS' ENTERED AT 08:07:00 ON 13 OCT 2004

L29 954 S L26  
L30 636 S L27  
L31 57 S L29,L30 AND L14  
E DIABETIC RETINOPATHY/CT  
E E3+ALL  
L32 2274 S E2  
E RETINOPATHY/CT  
E E3+ALL  
L33 3815 S E2  
L34 2532 S EYE, DISEASE/CT (L) DIABET?  
L35 3885 S ?DIABET? (L) ?RETINOPATH?  
L36 1578 S ?DIABET? (L) ?RETINA?  
E MACULA/CT  
E E11+ALL

L37 1093 S E2  
E AGE-RELATED MACULA/CT  
E E4+ALL  
L38 408 S E2  
L39 1467 S EYE, DISEASE/CT (L) (MACULA? (L) DEGEN?)  
L40 408 S EYE, DISEASE/CT (L) (MACULA? (L) DEGEN? (L) SENIL?)  
L41 404 S EYE, DISEASE/CT (L) (MACULA? (L) DEGEN? (L) AGE?)  
E RETINA/CT  
E RETINOPATHY/CT  
E EDEMA/CT  
L42 51 S EYE, DISEASE/CT (L) (RETIN? (L) (EDEM? OR OEDEM?))  
L43 0 S L29,L30 AND L32-L42  
L44 0 S L31 AND L32-L42  
L45 1 S L31 AND (?RETINA? OR ?RETINO? OR ?DIABET? OR AMD OR DR OR MAC  
L46 6 S L29,L30 AND (?RETINA? OR ?RETINO? OR ?DIABET? OR AMD OR DR OR  
L47 6 S L45,L46  
L48 2 S L29,L30 AND (EYE+OLD,NT,PFT,RT OR EYE, DISEASE+OLD,NT,PFT,RT)  
L49 2 S L29,L30 AND (EYE? OR ?OCULAR? OR ?OPHTHALM? OR RETINA OR RETI  
L50 3 S L48,L49  
L51 2 S L50 NOT RETINAL  
L52 0 S L29,L30 AND MACULA#

FILE 'REGISTRY' ENTERED AT 08:20:22 ON 13 OCT 2004

L53 8 S L17 AND CCS/CI  
SEL RN 5 6  
L54 6 S L53 NOT E1-E2

FILE 'HCAPLUS' ENTERED AT 08:22:25 ON 13 OCT 2004

L55 1 S L54 AND L16  
SEL HIT RN L51

FILE 'REGISTRY' ENTERED AT 08:22:44 ON 13 OCT 2004

L56 86 S E3-E88

FILE 'REGISTRY' ENTERED AT 08:23:35 ON 13 OCT 2004

=> fil hcaplus

FILE 'HCAPLUS' ENTERED AT 08:23:45 ON 13 OCT 2004

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FILE COVERS 1907 - 13 Oct 2004 VOL 141 ISS 16

FILE LAST UPDATED: 12 Oct 2004 (20041012/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> d l55 all hitstr

L55 ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2004 ACS on STN

AN 2003:491087 HCAPLUS  
 DN 139:57950  
 ED Entered STN: 27 Jun 2003  
 TI **Superoxide dismutase** mimics for the treatment of  
 ocular disorders and diseases  
 IN **Collier, Robert J., Jr.; Hellberg, Mark R.**  
 PA **Alcon, Inc., Switz.; Klimko, Peter G.**  
 SO PCT Int. Appl., 26 pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA English  
 IC ICM A61P027-02  
 ICS A61K031-555  
 CC 63-6 (Pharmaceuticals)  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2003051458	A1	20030626	WO 2002-US39037	20021206
	W: AU, BR, CA, CN, JP, KR, MX, PL, US, ZA				
	RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT,				
	LU, MC, NL, PT, SE, SK, TR				
	EP 1463563	A1	20041006	EP 2002-786915	20021206
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,				
	IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK				
PRAI	US 2001-340389P	P	20011214		
	WO 2002-US39037	W	20021206		

## CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
WO 2003051458	ICM	A61P027-02
	ICS	A61K031-555

OS MARPAT 139:57950  
 AB The use of SOD mimics particularly pentaazacycle Mn(II) complex SOD  
 mimics, for the treatment of age-related macular degeneration, diabetic  
 retinopathy, and retinal edema is disclosed. Tablets contained SOD mimics  
 60, magnesium oxide 20, corn starch 15, polyvinylpyrrolidone 3, sodium  
 CM-cellulose 1, and magnesium stearate 0.8%.  
 ST **superoxide dismutase** mimic treatment ocular disorder  
 IT Eye, disease  
 (diabetic retinopathy; **superoxide dismutase** mimics  
 for treatment of ocular disorders and diseases)  
 IT Eye, disease  
 (macula, senile degeneration; **superoxide dismutase**  
 mimics for treatment of ocular disorders and diseases)  
 IT Drug delivery systems  
 (ophthalmic, injections; **superoxide dismutase**  
 mimics for treatment of ocular disorders and diseases)  
 IT Eye  
 (retina, edema; **superoxide dismutase** mimics for  
 treatment of ocular disorders and diseases)  
 IT Eye, disease  
 (**superoxide dismutase** mimics for treatment of  
 ocular disorders and diseases)  
 IT Drug delivery systems  
 (tablets; **superoxide dismutase** mimics for treatment  
 of ocular disorders and diseases)  
 IT 9054-89-1, **Superoxide dismutase**  
 RL: BSU (Biological study, unclassified); BIOL (Biological study)  
 (mimics; **superoxide dismutase** mimics for treatment  
 of ocular disorders and diseases)  
 IT 218791-21-0 218791-28-7 330626-36-3  
 330626-41-0 330626-43-2 330626-70-5  
 RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL

(Biological study); USES (Uses)  
 (superoxide dismutase mimics for treatment of  
 ocular disorders and diseases)

RE.CNT 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD

RE

- (1) Babcock, J; US 5209926 A 1993 HCAPLUS
- (2) Crapo, J; US 6127356 A 2000 HCAPLUS
- (3) Kimura, K; AMERICAN JOURNAL OF OPHTHALMOLOGY 2000, V130(6), P769 HCAPLUS
- (4) Kusturin, C; US 6214817 B1 2001 HCAPLUS
- (5) Szabo, M; Investigative Ophthalmology & Visual Science V32(5), P1471  
MEDLINE
- (6) Univ Duke; WO 9923097 A 1999 HCAPLUS

IT 9054-89-1, Superoxide dismutase

RL: BSU (Biological study, unclassified); BIOL (Biological study)  
 (mimics; superoxide dismutase mimics for treatment  
 of ocular disorders and diseases)

RN 9054-89-1 HCAPLUS

CN Dismutase, superoxide (9CI) (CA INDEX NAME)

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

IT 218791-21-0 218791-28-7 330626-36-3

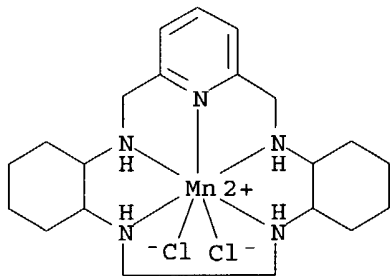
330626-41-0 330626-43-2 330626-70-5

RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL  
 (Biological study); USES (Uses)

(superoxide dismutase mimics for treatment of  
 ocular disorders and diseases)

RN 218791-21-0 HCAPLUS

CN Manganese, dichloro[(4aR,13aR,17aR,21aR)-1,2,3,4,4a,5,6,12,13,13a,14,15,16,  
 17,17a,18,19,20,21,21a-eicosahydro-11,7-nitrilo-7H-  
 dibenzo[b,h][1,4,7,10]tetraazacycloheptadecine-  
 κN5,κN13,κN18,κN21,κN22]-,  
 (PB-7-11-2344'3')- (9CI) (CA INDEX NAME)

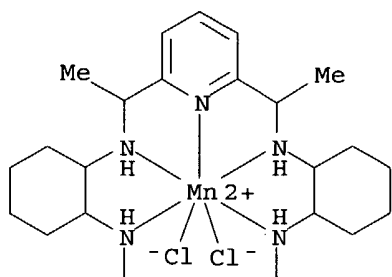


*These are the compounds  
 which CAS identified  
 in this reference*

RN 218791-28-7 HCAPLUS

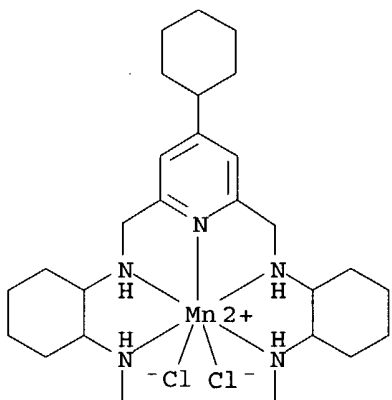
CN Manganese, dichloro[(4aR,6S,12S,13aR,  
 1,2,3,4,4a,5,6,12,13,13a,14,15,16,17,  
 dimethyl-11,7-nitrilo-7H-dibenzo[b,h]  
 κN5,κN13,κN18,κN21,κN22]-,  
 (PB-7-11-2344'3')- (9CI) (CA INDEX N





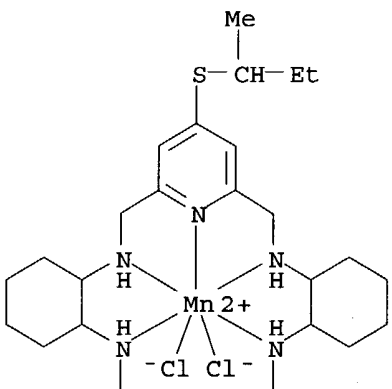
RN 330626-36-3 HCAPLUS

CN Manganese, dichloro[(4aR,13aR,17aR,21aR)-9-cyclohexyl-1,2,3,4,4a,5,6,12,13,13a,14,15,16,17,17a,18,19,20,21,21a-eicosahydro-11,7-nitrilo-7H-dibenzo[b,h][1,4,7,10]tetraazacycloheptadecine-κN5,κN13,κN18,κN21,κN22]-, (PB-7-11-2344'3')- (9CI) (CA INDEX NAME)



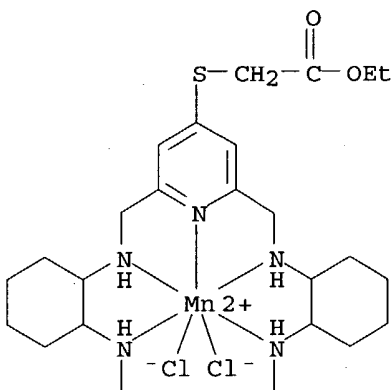
RN 330626-41-0 HCAPLUS

CN Manganese, dichloro[1,2,3,4,4a,5,6,12,13,13a,14,15,16,17,17a,18,19,20,21,21a-eicosahydro-9-[(1-methylpropyl)thio]-11,7-nitrilo-7H-dibenzo[b,h][1,4,7,10]tetraazacycloheptadecine-κN5,κN13,κN18,κN21,κN22]-, (PB-7-11-2344'3')- (9CI) (CA INDEX NAME)



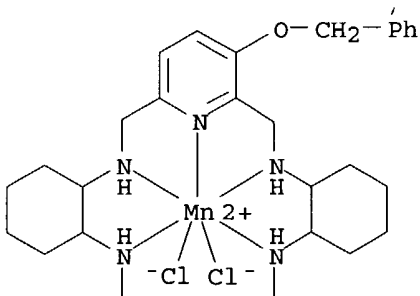
RN 330626-43-2 HCAPLUS

CN Manganese, dichloro[ethyl [[(4aR,13aR,17aR,21aR)-1,2,3,4,4a,5,6,12,13,13a,14,15,16,17,17a,18,19,20,21,21a-eicosahydro-11,7-nitrilo-7H-dibenzo[b,h][1,4,7,10]tetraazacycloheptadecin-9-yl-κN5,κN13,κN18,κN21,κN22]thio]acetate]-, (PB-7-11-2344'3')- (9CI) (CA INDEX NAME)



RN 330626-70-5 HCAPLUS

CN Manganese, dichloro[(4aR,13aR,17aR,21aR)-1,2,3,4,4a,5,6,12,13,13a,14,15,16,17,17a,18,19,20,21,21a-eicosahydro-8-(phenylmethoxy)-11,7-nitrilo-7H-dibenzo[b,h][1,4,7,10]tetraazacycloheptadecine-κN5,κN13,κN18,κN21,κN22]-, (PB-7-11-23564)- (9CI) (CA INDEX NAME)



=> d 151 all hitstr tot

L51 ANSWER 1 OF 2 HCAPLUS COPYRIGHT 2004 ACS on STN

AN 2002:293647 HCAPLUS

DN 136:325425

ED Entered STN: 19 Apr 2002

TI Preparation of nitrobenzopyranylheterocycles for treatment of ischemia-reperfusion injury and as inhibitors of lipid peroxidation.

IN Yoo, Sung-Eun; Lee, Sun-Kyung; Yi, Kyu-Yang; Kim, Nak-Jeong; Suh, Jee-Hee; Shin, Hwa-Sup; Lee, Byung-Ho; Seo, Ho-Won; Lim, Hong; Kim, Sun-Ok; Lee, Dong-Ha; Cho, In-Sun; Namgung, Mi-Ae; Jang, Dong-Soo

PA Dongbu Hannong Chemical Co., Ltd, S. Korea

SO PCT Int. Appl., 157 pp.

CODEN: PIXXD2

DT Patent

LA English

IC ICM C07D407-06

CC 27-16 (Heterocyclic Compounds (One Hetero Atom))

## Section cross-reference(s): 1

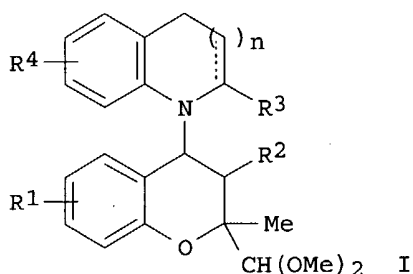
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002030925	A1	20020418	WO 2001-KR1675	20011006
	W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
	RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
	US 6413983	B1	20020702	US 2000-724029	20001128
	AU 2001094310	A5	20020422	AU 2001-94310	20011006
	EP 1330454	A1	20030730	EP 2001-974939	20011006
	R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR			
PRAI	KR 2000-59354	A	20001009		
	WO 2001-KR1675	W	20011006		

## CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
WO 2002030925	ICM	C07D407-06

OS CASREACT 136:325425; MARPAT 136:325425  
GI



- AB Title compds. [I; n = 0, 1; R1 = H, NO2, NH2; R2 = OH, O2CRa; Ra = H, alkyl, aryl; R3 = H, CO2Ra, CH2ORa, CON(Ra)2; or R2R3 form a lactone ring; R4 = H, halo, OH, ORa; dotted line = optional double bond], were prepared Thus, (2S,3R,4R)-3,4-dihydro-2-dimethoxymethyl-3,4-epoxy-2-methyl-6-nitro-2H-1-benzopyran (preparation given), Et 2,3-dihydro-1H-indole-2-carboxylate, and MgClO4 were stirred 8 h in MeCN to give 38% Et 1-[(2S,3R,4S)-3,4-dihydro-2-dimethoxymethyl-3-hydroxy-2-methyl-6-nitro-2H-1-benzopyran-4-yl]-(2R)-2,3-dihydro-1H-indole-2-carboxylate. I at 30  $\mu$ M gave 73-101% inhibition of Fe-induced damage to rat embryo cortical neurons.
- ST nitrobenzopyranylheterocycle prepn ischemia reperfusion injury treatment; benzopyranylindole nitro prepn ischemia reperfusion injury treatment; cardioprotectant nitrobenzopyranylheterocycle prepn
- IT Cytoprotective agents  
(cardioprotective; preparation of nitrobenzopyranylheterocycles for treatment of ischemia-reperfusion injury and as inhibitors of lipid peroxidn.)
- IT Nerve, disease  
(diabetic neuropathy, treatment; preparation of nitrobenzopyranylheterocycles for treatment of ischemia-reperfusion injury and as inhibitors of lipid peroxidn.)
- IT Heart, disease

(failure, treatment; preparation of nitrobenzopyranylheterocycles for treatment of ischemia-reperfusion injury and as inhibitors of lipid peroxidn.)

IT Heart, disease  
(infarction, treatment; preparation of nitrobenzopyranylheterocycles for treatment of ischemia-reperfusion injury and as inhibitors of lipid peroxidn.)

IT Peroxidation  
(lipid, suppressors; preparation of nitrobenzopyranylheterocycles for treatment of ischemia-reperfusion injury and as inhibitors of lipid peroxidn.)

IT Cytoprotective agents  
(neuroprotective; preparation of nitrobenzopyranylheterocycles for treatment of ischemia-reperfusion injury and as inhibitors of lipid peroxidn.)

IT Human  
(preparation of nitrobenzopyranylheterocycles for treatment of ischemia-reperfusion injury and as inhibitors of lipid peroxidn.)

IT Organ preservation  
(preservatives; preparation of nitrobenzopyranylheterocycles for treatment of ischemia-reperfusion injury and as inhibitors of lipid peroxidn.)

IT Brain, disease  
(stroke, treatment; preparation of nitrobenzopyranylheterocycles for treatment of ischemia-reperfusion injury and as inhibitors of lipid peroxidn.)

IT Asphyxia  
(treatment of infant asphyxia; preparation of nitrobenzopyranylheterocycles for treatment of ischemia-reperfusion injury and as inhibitors of lipid peroxidn.)

IT Glaucoma (disease)  
(treatment; preparation of nitrobenzopyranylheterocycles for treatment of ischemia-reperfusion injury and as inhibitors of lipid peroxidn.)

IT 135620-04-1 138124-32-0  
RL: CAT (Catalyst use); USES (Uses)  
(preparation of nitrobenzopyranylheterocycles for treatment of ischemia-reperfusion injury and as inhibitors of lipid peroxidn.)

IT 412280-26-3P 412280-27-4P 412280-28-5P 412280-30-9P 412280-31-0P  
412280-32-1P 412280-33-2P 412280-34-3P 412280-35-4P 412280-36-5P  
412280-37-6P 412280-38-7P 412280-39-8P 412280-40-1P 412280-41-2P  
412280-42-3P 412280-43-4P 412280-44-5P 412280-45-6P 412280-46-7P  
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412280-67-2P 412280-68-3P 412280-69-4P 412280-70-7P 412280-71-8P  
412280-72-9P 412280-73-0P 412280-74-1P 412280-75-2P 412280-76-3P  
412280-77-4P 412280-78-5P 412280-79-6P 412280-80-9P 412280-81-0P  
412280-82-1P 412280-83-2P 412280-84-3P 412280-86-5P 412280-88-7P  
412280-90-1P 412284-04-9P 412284-06-1P  
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)  
(preparation of nitrobenzopyranylheterocycles for treatment of ischemia-reperfusion injury and as inhibitors of lipid peroxidn.)

IT 93-10-7, 2-Quinolincarboxylic acid 399-76-8 3770-50-1 4382-54-1  
4792-67-0 65873-38-3, 1H-Indole-2-carboxylic acid, propyl ester  
79815-20-6 335382-01-9 335382-02-0  
RL: RCT (Reactant); RACT (Reactant or reagent)  
(preparation of nitrobenzopyranylheterocycles for treatment of ischemia-reperfusion injury and as inhibitors of lipid peroxidn.)

IT 348-36-7P 4792-58-9P 10241-98-2P 19575-07-6P 40971-35-5P  
50501-07-0P 59040-84-5P 78701-42-5P 78701-48-1P 113896-03-0P  
185213-18-7P 380912-55-0P 380912-56-1P 380912-57-2P 380912-58-3P  
412281-00-6P 412281-03-9P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of nitrobenzopyranylheterocycles for treatment of ischemia-reperfusion injury and as inhibitors of lipid peroxidn.)

RE.CNT 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD  
RE

- (1) American Home Products Corporation; US 4925839 A 1990 HCAPLUS
- (2) Beiersdorf Aktiengesellschaft; US 5096914 A 1992 HCAPLUS
- (3) Bristol-Myers Squibb Company; EP 624581 A2 1994 HCAPLUS
- (4) Bristol-Myers Squibb Company; EP 648758 A1 1995 HCAPLUS
- (5) Fuisawa Pharmaceutical Company; US 5104890 A 1992 HCAPLUS
- (6) Hoechst Japan Limited; US 5317029 A 1994 HCAPLUS

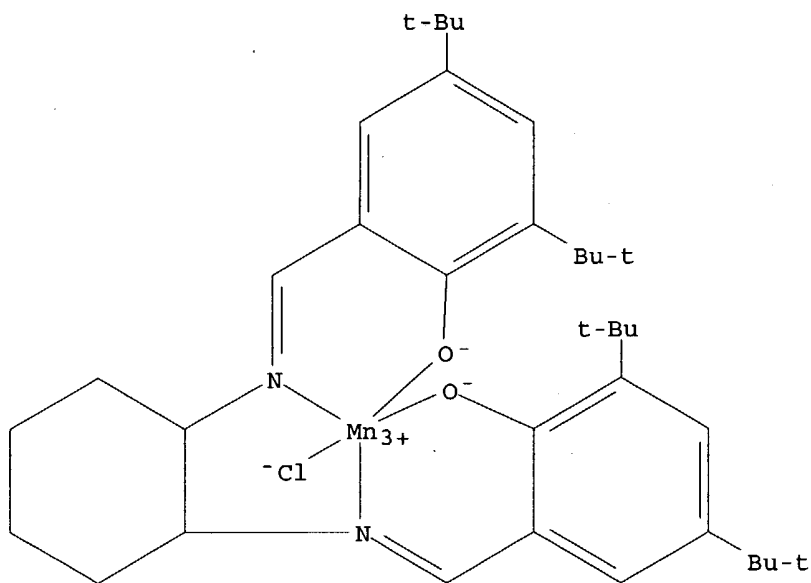
IT 135620-04-1 138124-32-0

RL: CAT (Catalyst use); USES (Uses)

(preparation of nitrobenzopyranylheterocycles for treatment of ischemia-reperfusion injury and as inhibitors of lipid peroxidn.)

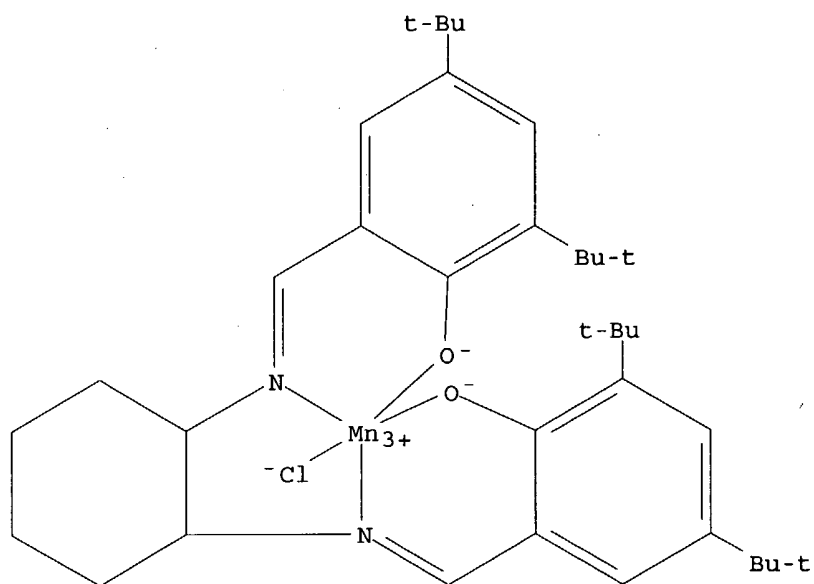
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CN Manganese, chloro[[2,2'-[(1S,2S)-1,2-cyclohexanediylbis[(nitrilo-κN)methylidyne]]bis[4,6-bis(1,1-dimethylethyl)phenolato-κO]](2-)]-, (SP-5-13)-(9CI) (CA INDEX NAME)



RN 138124-32-0 HCAPLUS

CN Manganese, chloro[[2,2'-[1,2-cyclohexanediylbis[(nitrilo-κN)methylidyne]]bis[4,6-bis(1,1-dimethylethyl)phenolato-κO]](2-)]-, [SP-5-13-(1R-trans)]-(9CI) (CA INDEX NAME)



L51 ANSWER 2 OF 2 HCAPLUS COPYRIGHT 2004 ACS on STN

AN 2000:133685 HCAPLUS

DN 132:188964

ED Entered STN: 25 Feb 2000

TI Bipyridine manganese complexes

IN Campbell, Ian Baxter; Walker, Ann Louise; Box, Philip Charles; Giblin, Gerard Martin Paul; Tranter, George Edward

PA Eukarion, Inc., USA

SO PCT Int. Appl., 109 pp.

CODEN: PIXXD2

DT Patent

LA English

IC ICM C07F

CC 78-7 (Inorganic Chemicals and Reactions)

Section cross-reference(s): 1, 27, 63

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000009512	A2	20000224	WO 1999-US18629	19990817
WO 2000009512	A3	20010531		
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
CA 2341216	AA	20000224	CA 1999-2341216	19990817
AU 9954891	A1	20000306	AU 1999-54891	19990817
US 6177419	B1	20010123	US 1999-376044	19990817
EP 1119573	A2	20010801	EP 1999-941192	19990817
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
JP 2002522545	T2	20020723	JP 2000-564963	19990817
US 6541490	B1	20030401	US 2000-722799	20001127
PRAI GB 1998-17845	A	19980817		

US 1999-376044 A3 19990817  
 WO 1999-US18629 W 19990817

## CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
WO 2000009512	ICM	C07F
WO 2000009512	ECLA	A61K033/32; C07D213/53B; C07F005/04; C07F013/00B
US 6177419	ECLA	A61K033/32; C07D213/53B; C07F005/04; C07F013/00B
US 6541490	ECLA	A61K033/32; C07D213/53B; C07F005/04; C07F013/00B
OS	MARPAT 132:188964	
AB	MnLX (H2L = 6,6'-bis(2-hydroxyphenyl)-2,2'-bipyridine derivs.; X - OAc, Cl) were prepared by initially preparing tetrahydropyran-protected phenols, converting these phenols to boronic acid derivs. from which H2L were prepared H2L are then complexed with Mn(III). MnLX are useful in treating or preventing free radical-associated diseases or conditions in mammals.	
ST	manganese hydroxyphenylbipyridine complex prepn free radical disease treatment	
IT	Respiratory distress syndrome (adult; preparation of manganese bis(hydroxyphenyl)bipyridine complexes for treatment of)	
IT	Artery (angioplasty; preparation of manganese bis(hydroxyphenyl)bipyridine complexes for treatment of)	
IT	Gingiva (gingivitis; preparation of manganese bis(hydroxyphenyl)bipyridine complexes for treatment of)	
IT	Intestine, disease (inflammatory; preparation of manganese bis(hydroxyphenyl)bipyridine complexes for treatment of)	
IT	Pancreas, disease (pancreatitis; preparation of manganese bis(hydroxyphenyl)bipyridine complexes for treatment of)	
IT	Anti-Alzheimer's agents Anti-inflammatory agents Antiasthmatics Antioxidants Antiparkinsonian agents Antirheumatic agents Antitumor agents Cardiovascular agents Nervous system agents (preparation of manganese bis(hydroxyphenyl)bipyridine complexes as)	
IT	Radicals, biological studies Reactive oxygen species RL: BSU (Biological study, unclassified); BIOL (Biological study) (preparation of manganese bis(hydroxyphenyl)bipyridine complexes for)	
IT	Autoimmune disease Blood vessel, disease Brain, disease Eczema Emphysema <b>Eye, disease</b> Oxidative stress, biological Skin, disease (preparation of manganese bis(hydroxyphenyl)bipyridine complexes for treatment of)	
IT	Drug delivery systems (preparation of manganese bis(hydroxyphenyl)bipyridine complexes in)	
IT	Shock (circulatory collapse) (septic; preparation of manganese bis(hydroxyphenyl)bipyridine complexes for treatment of)	
IT	Brain, disease (stroke; preparation of manganese bis(hydroxyphenyl)bipyridine complexes for	

treatment of)

IT 259208-25-8P 259208-26-9P 259208-27-0P  
 259208-28-1P 259208-29-2P 259208-30-5P  
 259208-31-6P 259208-32-7P 259208-33-8P  
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 259208-64-5P 259208-65-6P 259208-66-7P  
 RL: RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use);  
 BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent);  
 USES (Uses)  
 (preparation and conversion to chloro complex and use in treatment or  
 prevention of free radical-associated diseases or conditions in mammals)

IT 140226-52-4P 140226-53-5P 156122-75-7P, 6,6'-Bis(2-hydroxyphenyl)-2,2'-  
 bipyridine 223453-80-3P 259209-09-1P, 2-(2-  
 Ethoxyphenoxy)tetrahydropyran 259209-10-4P 259209-11-5P 259209-12-6P  
 259209-13-7P 259209-14-8P 259209-15-9P 259209-16-0P,  
 (2-Hydroxy-5-methoxyphenyl)boronic acid 259209-17-1P 259209-18-2P  
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 259209-29-5P 259209-30-8P 259209-31-9P 259209-32-0P 259209-33-1P  
 259209-34-2P 259209-35-3P, 6,6'-Bis(2-hydroxy-5-methoxyphenyl)-2,2'-  
 bipyridine 259209-36-4P 259209-37-5P 259209-38-6P 259209-39-7P  
 259209-40-0P 259209-41-1P 259209-42-2P 259209-43-3P 259209-44-4P  
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 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT  
 (Reactant or reagent)  
 (preparation and reactant for preparation of manganese  
 bis(hydroxyphenyl)bipyridine complexes for use in treatment or  
 prevention of free radical-associated diseases or conditions in mammals)

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 RL: SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological  
 study); PREP (Preparation); USES (Uses)  
 (preparation and use in treatment or prevention of free radical-associated  
 diseases or conditions in mammals)

IT 90-05-1, 2-Methoxyphenol 94-71-3, 2-Ethoxyphenol 99-89-8,  
 4-Isopropylphenol 105-67-9, 2,4-Dimethylphenol 110-87-2,



3,4-Dihydro-2H-pyran 123-07-9, 4-Ethylphenol 367-12-4, 2-Fluorophenol  
 371-41-5, 4-Fluorophenol 526-75-0, 2,3-Dimethylphenol 620-17-7,  
 3-Ethylphenol 638-38-0, Manganese diacetate 2138-43-4 3226-32-2,  
 2-Hexylphenol 5419-55-6, Triisopropoxyborane 13481-09-9 17356-00-2  
 30778-85-9 30778-86-0 32996-90-0 34708-50-4 49669-22-9,  
 6,6'-Dibromo-2,2'-bipyridine 72066-75-2 89466-08-0 114212-24-7  
 144265-47-4 259209-79-5 259209-82-0

RL: RCT (Reactant); RACT (Reactant or reagent)

(reactant for preparation of manganese bis(hydroxyphenyl)bipyridine  
 complexes for use in treatment or prevention of free radical-associated  
 diseases or conditions in mammals)

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 259208-28-1P 259208-29-2P 259208-30-5P  
 259208-31-6P 259208-32-7P 259208-33-8P  
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 259208-37-2P 259208-38-3P 259208-39-4P  
 259208-40-7P 259208-41-8P 259208-42-9P  
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 259208-55-4P 259208-56-5P 259208-57-6P  
 259208-58-7P 259208-59-8P 259208-60-1P  
 259208-61-2P 259208-62-3P 259208-63-4P  
 259208-64-5P 259208-65-6P 259208-66-7P

RL: RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use);

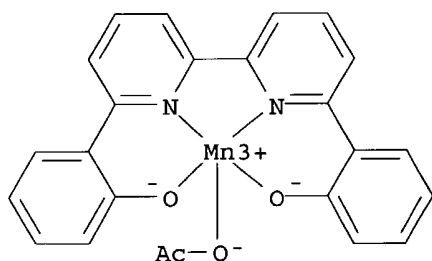
BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent);

USES (Uses)

(preparation and conversion to chloro complex and use in treatment or  
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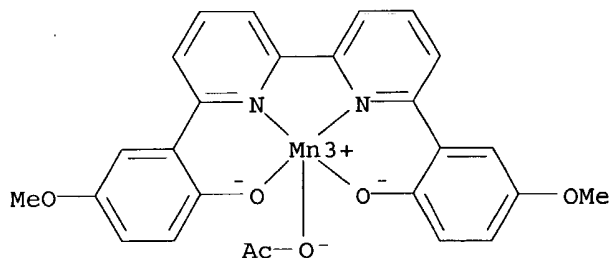
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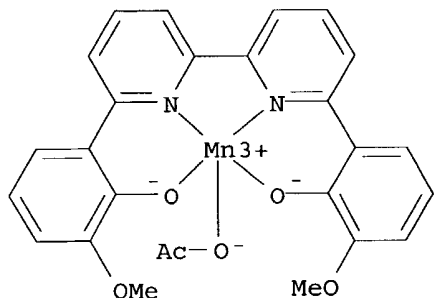


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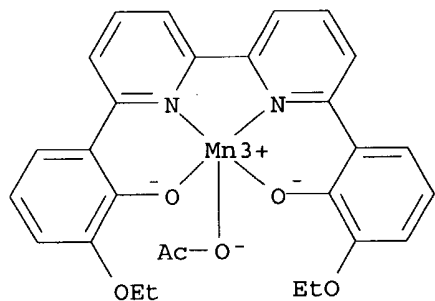
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 INDEX NAME)



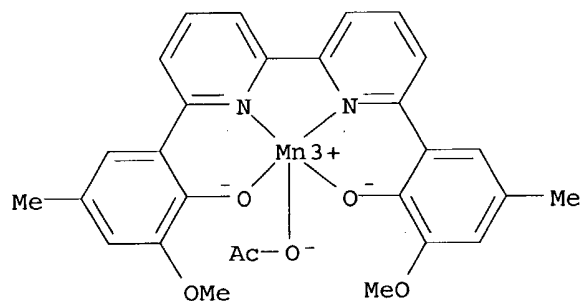
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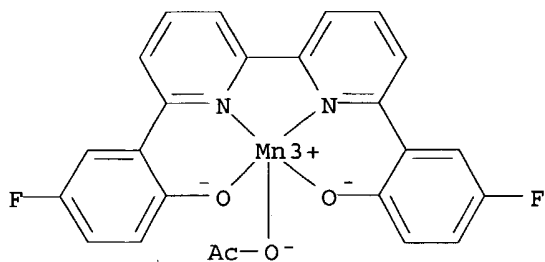
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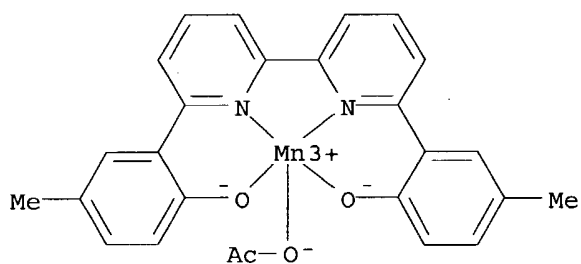
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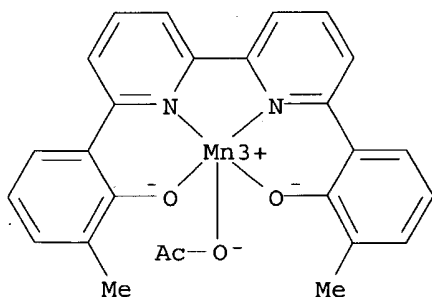
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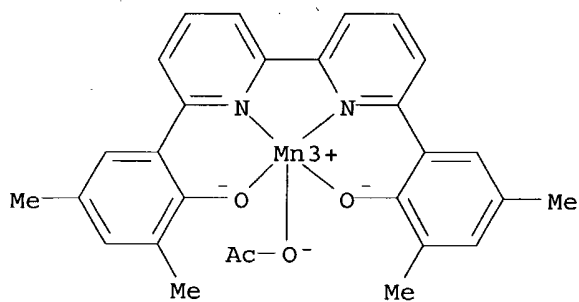
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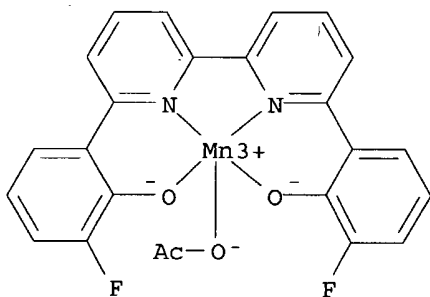
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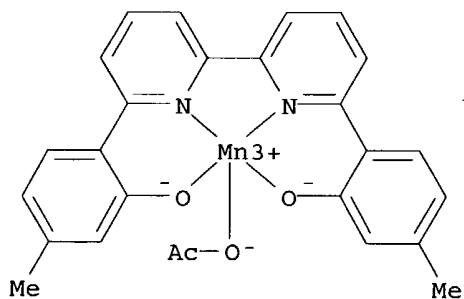
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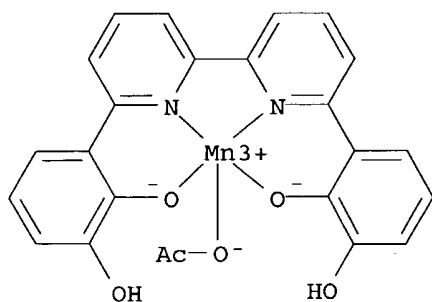
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 INDEX NAME)



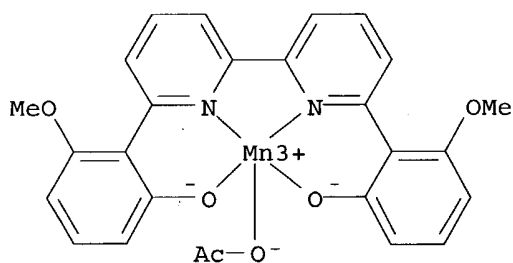
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 INDEX NAME)



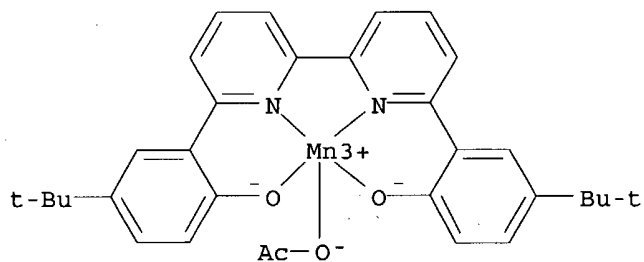
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 INDEX NAME)



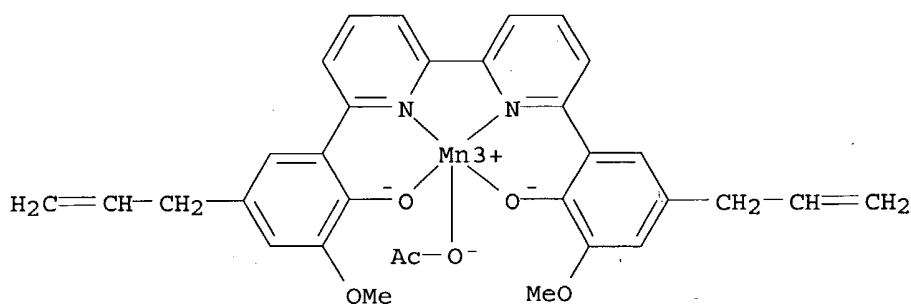
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RN 259208-38-3 HCAPLUS  
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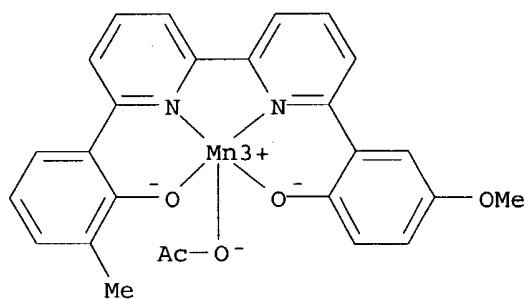


RN 259208-39-4 HCAPLUS  
 CN Manganese, (acetato- $\kappa$ O) [[2,2'-([2,2'-bipyridine]-6,6'-diyl- $\kappa$ N1, $\kappa$ N1')]bis[6-methoxy-4-(2-propenyl)phenolato- $\kappa$ O]](2-)]- (9CI) (CA INDEX NAME)



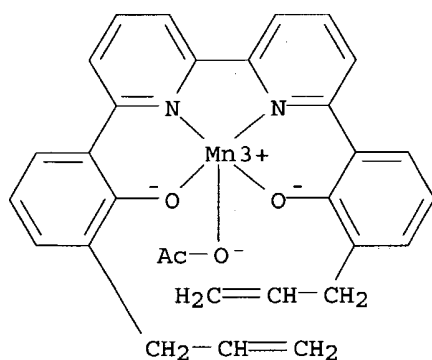
RN 259208-40-7 HCAPLUS

CN Manganese, (acetato- $\kappa$ O) [2-[6'-[2-(hydroxy- $\kappa$ O)-3-methylphenyl][2,2'-bipyridin]-6-yl- $\kappa$ N1, $\kappa$ N1']-4-methoxyphenolato(2-)- $\kappa$ O]- (9CI) (CA INDEX NAME)



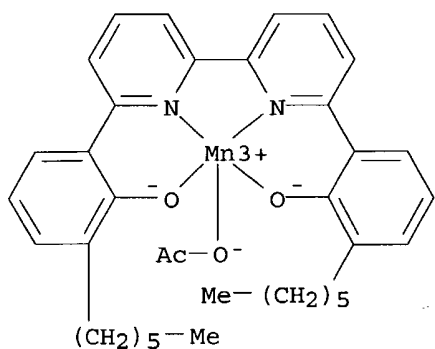
RN 259208-41-8 HCAPLUS

CN Manganese, (acetato- $\kappa$ O) [[2,2'-( [2,2'-bipyridine]-6,6'-diyl- $\kappa$ N1, $\kappa$ N1')bis[6-(2-propenyl)phenolato- $\kappa$ O]](2-)]- (9CI) (CA INDEX NAME)



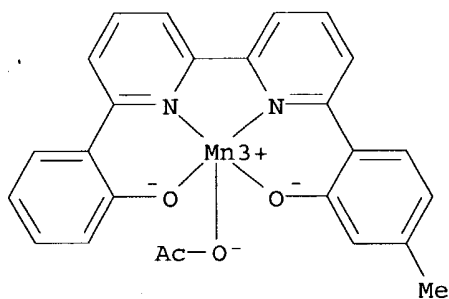
RN 259208-42-9 HCAPLUS

CN Manganese, (acetato- $\kappa$ O) [[2,2'-( [2,2'-bipyridine]-6,6'-diyl- $\kappa$ N1, $\kappa$ N1')bis[6-hexylphenolato- $\kappa$ O]](2-)]- (9CI) (CA INDEX NAME)



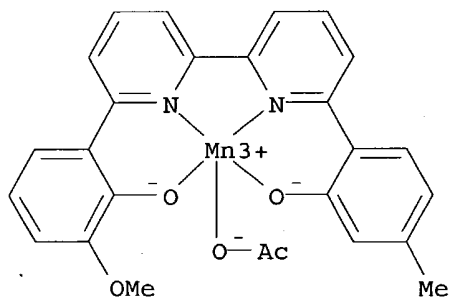
RN 259208-43-0 HCAPLUS

CN Manganese, (acetato-κO) [2-[6'-[2-(hydroxy-κO)phenyl] [2,2'-bipyridin]-6-yl-κN1,κN1']-5-methylphenolato(2-)-κO]-(9CI) (CA INDEX NAME)



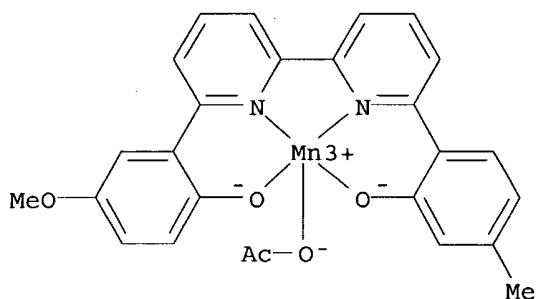
RN 259208-44-1 HCAPLUS

CN Manganese, (acetato-κO) [2-[6'-[2-(hydroxy-κO)-3-methoxyphenyl] [2,2'-bipyridin]-6-yl-κN1,κN1']-5-methylphenolato(2-)-κO]-(9CI) (CA INDEX NAME)

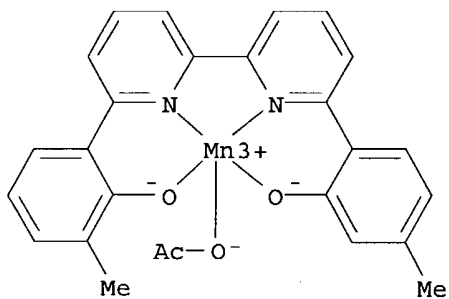


RN 259208-45-2 HCAPLUS

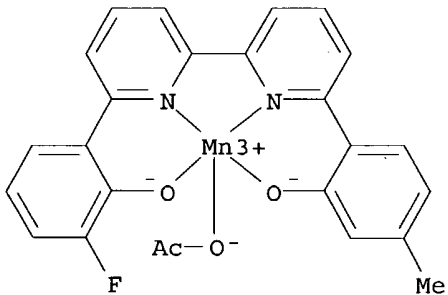
CN Manganese, (acetato-κO) [2-[6'-[2-(hydroxy-κO)-4-methylphenyl] [2,2'-bipyridin]-6-yl-κN1,κN1']-4-methoxyphenolato(2-)-κO]-(9CI) (CA INDEX NAME)



RN 259208-46-3 HCAPLUS  
 CN Manganese, (acetato-κO) [2-[6'-[2-(hydroxy-κO)-3-methylphenyl] [2,2'-bipyridin]-6-yl-κN1,κN1']-5-methylphenolato(2-)-κO]- (9CI) (CA INDEX NAME)

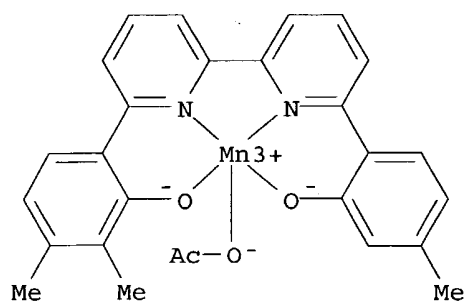


RN 259208-47-4 HCAPLUS  
 CN Manganese, (acetato-κO) [2-[6'-[3-fluoro-2-(hydroxy-κO)phenyl] [2,2'-bipyridin]-6-yl-κN1,κN1']-5-methylphenolato(2-)-κO]- (9CI) (CA INDEX NAME)

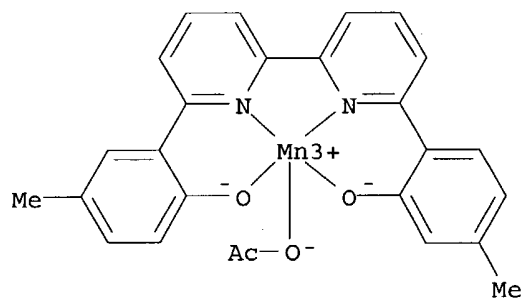


RN 259208-48-5 HCAPLUS  
 CN Manganese, (acetato-κO) [6-[6'-[2-(hydroxy-κO)-4-methylphenyl] [2,2'-bipyridin]-6-yl-κN1,κN1']-2,3-dimethylphenolato(2-)-κO]- (9CI) (CA INDEX NAME)

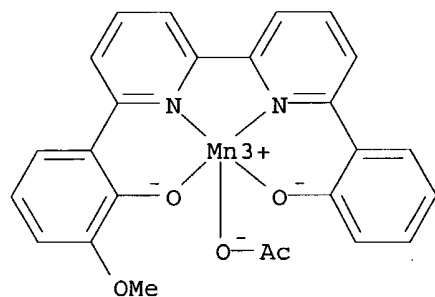




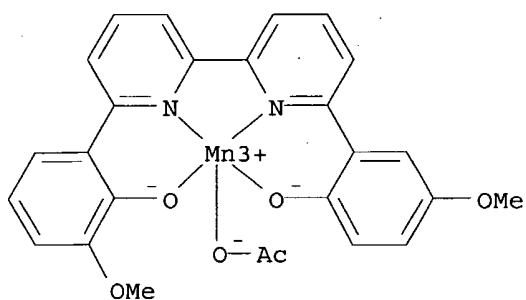
RN 259208-49-6 HCAPLUS  
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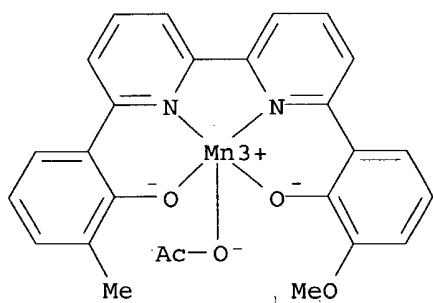
RN 259208-50-9 HCAPLUS  
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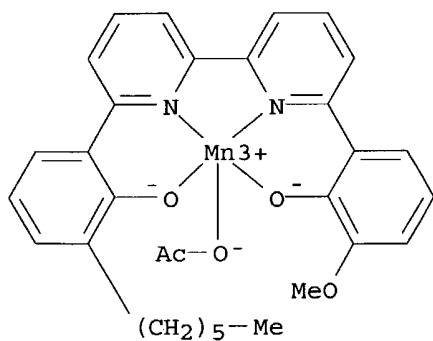
RN 259208-51-0 HCAPLUS  
 CN Manganese, (acetato-kappa O) [2-[6'-[2-(hydroxy-kappa O)-3-methoxyphenyl] [2,2'-bipyridin]-6-yl-kappa N1,kappa N1']-4-methoxyphenolato(2-)-kappa O]- (9CI) (CA INDEX NAME)



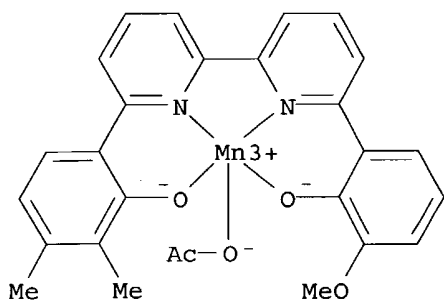
RN 259208-52-1 HCAPLUS  
 CN Manganese, (acetato- $\kappa$ O) [2-[6'-[2-(hydroxy- $\kappa$ O)-3-methoxyphenyl] [2,2'-bipyridin]-6-yl- $\kappa$ N1, $\kappa$ N1']-6-methylphenolato(2-)- $\kappa$ O]- (9CI) (CA INDEX NAME)



RN 259208-53-2 HCAPLUS  
 CN Manganese, (acetato- $\kappa$ O) [2-[6'-[3-hexyl-2-(hydroxy- $\kappa$ O)phenyl] [2,2'-bipyridin]-6-yl- $\kappa$ N1, $\kappa$ N1']-6-methoxyphenolato(2-)- $\kappa$ O]- (9CI) (CA INDEX NAME)

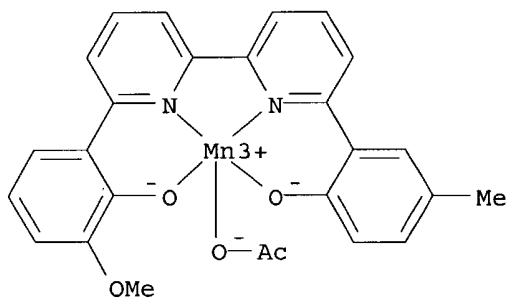


RN 259208-54-3 HCAPLUS  
 CN Manganese, (acetato- $\kappa$ O) [6-[6'-[2-(hydroxy- $\kappa$ O)-3-methoxyphenyl] [2,2'-bipyridin]-6-yl- $\kappa$ N1, $\kappa$ N1']-2,3-dimethylphenolato(2-)- $\kappa$ O]- (9CI) (CA INDEX NAME)



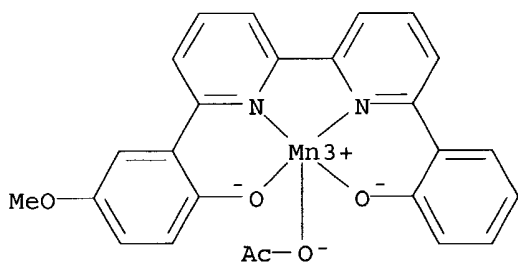
RN 259208-55-4 HCAPLUS

CN Manganese, (acetato-κO) [2-[6'-[2-(hydroxy-κO)-3-methoxyphenyl] [2,2'-bipyridin]-6-yl-κN1,κN1']-4-methylphenolato(2-)-κO] - (9CI) (CA INDEX NAME)



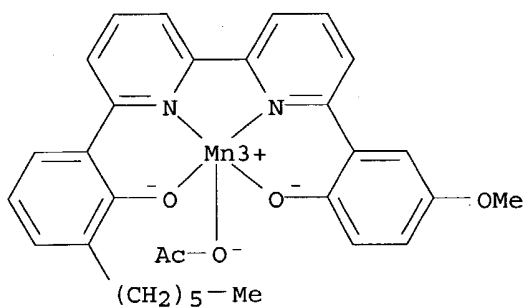
RN 259208-56-5 HCAPLUS

CN Manganese, (acetato-κO) [2-[6'-[2-(hydroxy-κO)phenyl] [2,2'-bipyridin]-6-yl-κN1,κN1']-4-methoxyphenolato(2-)-κO] - (9CI) (CA INDEX NAME)



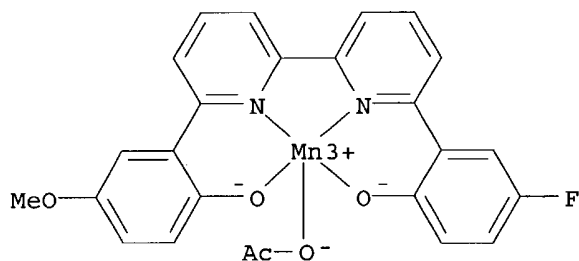
RN 259208-57-6 HCAPLUS

CN Manganese, (acetato-κO) [2-[6'-[3-hexyl-2-(hydroxy-κO)phenyl] [2,2'-bipyridin]-6-yl-κN1,κN1']-4-methoxyphenolato(2-)-κO] - (9CI) (CA INDEX NAME)



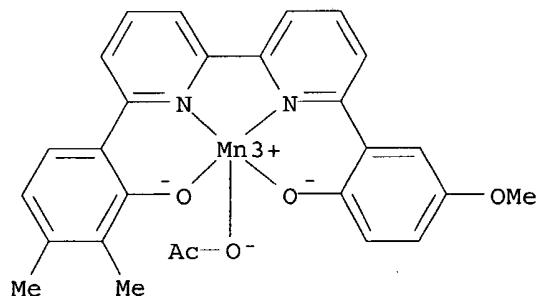
RN 259208-58-7 HCAPLUS

CN Manganese, (acetato- $\kappa$ O) [4-fluoro-2-[6'-[2-(hydroxy- $\kappa$ O)-5-methoxyphenyl] [2,2'-bipyridin]-6-yl- $\kappa$ N1, $\kappa$ N1']] phenolato(2-)- $\kappa$ O]- (9CI) (CA INDEX NAME)



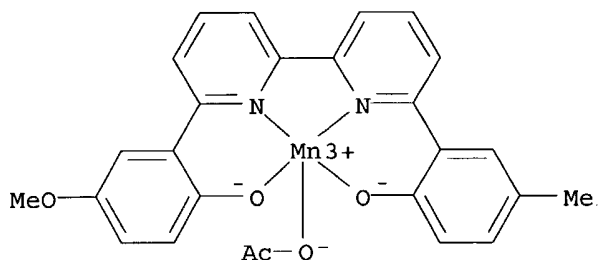
RN 259208-59-8 HCAPLUS

CN Manganese, (acetato- $\kappa$ O) [6-[6'-[2-(hydroxy- $\kappa$ O)-5-methoxyphenyl] [2,2'-bipyridin]-6-yl- $\kappa$ N1, $\kappa$ N1']] -2,3-dimethylphenolato(2-)- $\kappa$ O]- (9CI) (CA INDEX NAME)



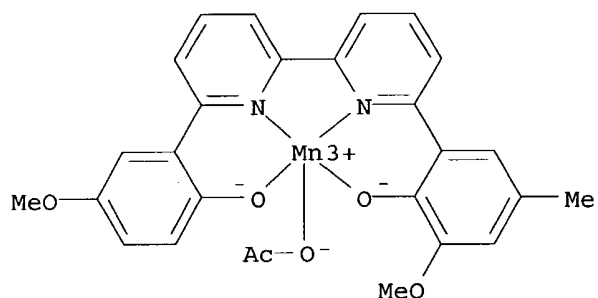
RN 259208-60-1 HCAPLUS

CN Manganese, (acetato- $\kappa$ O) [2-[6'-[2-(hydroxy- $\kappa$ O)-5-methoxyphenyl] [2,2'-bipyridin]-6-yl- $\kappa$ N1, $\kappa$ N1']] -4-methylphenolato(2-)- $\kappa$ O]- (9CI) (CA INDEX NAME)



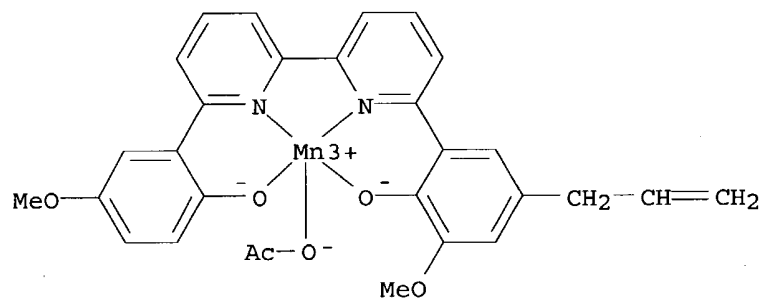
RN 259208-61-2 HCAPLUS

CN Manganese, (acetato- $\kappa$ O) [2-[6'-[2-(hydroxy- $\kappa$ O)-5-methoxyphenyl] [2,2'-bipyridin]-6-yl- $\kappa$ N1, $\kappa$ N1']-6-methoxy-4-methylphenolato(2-)- $\kappa$ O] - (9CI) (CA INDEX NAME)



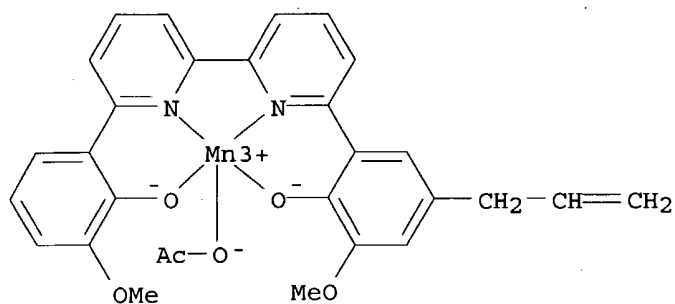
RN 259208-62-3 HCAPLUS

CN Manganese, (acetato- $\kappa$ O) [2-[6'-[2-(hydroxy- $\kappa$ O)-5-methoxyphenyl] [2,2'-bipyridin]-6-yl- $\kappa$ N1, $\kappa$ N1']-6-methoxy-4-(2-propenyl)phenolato(2-)- $\kappa$ O] - (9CI) (CA INDEX NAME)



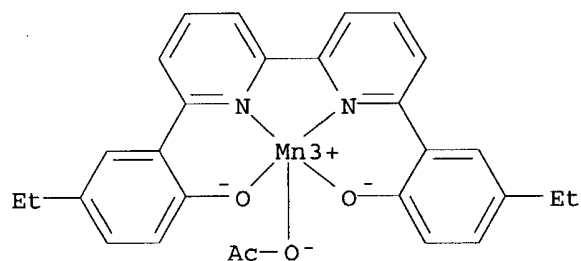
RN 259208-63-4 HCAPLUS

CN Manganese, (acetato- $\kappa$ O) [2-[6'-[2-(hydroxy- $\kappa$ O)-3-methoxyphenyl] [2,2'-bipyridin]-6-yl- $\kappa$ N1, $\kappa$ N1']-6-methoxy-4-(2-propenyl)phenolato(2-)- $\kappa$ O] - (9CI) (CA INDEX NAME)



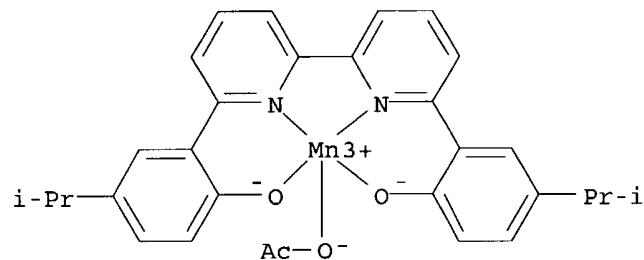
RN 259208-64-5 HCAPLUS

CN Manganese, (acetato-κO) [[2,2'-([2,2'-bipyridine]-6,6'-diyl-κN1,κN1')bis[4-ethylphenolato-κO]](2-)]- (9CI) (CA INDEX NAME)



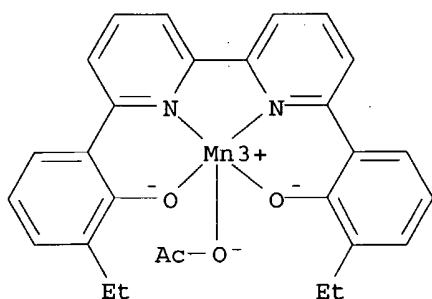
RN 259208-65-6 HCAPLUS

CN Manganese, (acetato-κO) [[2,2'-([2,2'-bipyridine]-6,6'-diyl-κN1,κN1')bis[4-(1-methylethyl)phenolato-κO]](2-)]- (9CI) (CA INDEX NAME)



RN 259208-66-7 HCAPLUS

CN Manganese, (acetato-κO) [[2,2'-([2,2'-bipyridine]-6,6'-diyl-κN1,κN1')bis[6-ethylphenolato-κO]](2-)]- (9CI) (CA INDEX NAME)

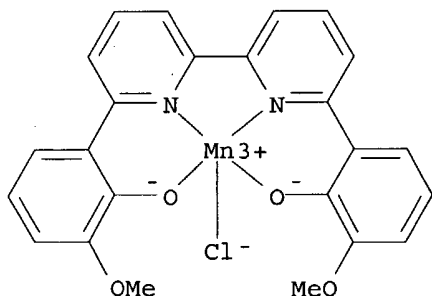


IT 259208-67-8P 259208-68-9P 259208-69-0P  
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 259208-76-9P 259208-77-0P 259208-78-1P  
 259208-79-2P 259208-80-5P 259208-81-6P  
 259208-82-7P 259208-83-8P 259208-84-9P  
 259208-85-0P 259208-86-1P 259208-87-2P  
 259208-88-3P 259208-89-4P 259208-90-7P  
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 259209-06-8P 259209-07-9P 259209-08-0P

RL: SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)  
 (preparation and use in treatment or prevention of free radical-associated diseases or conditions in mammals)

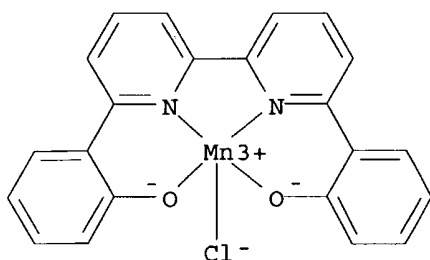
RN 259208-67-8 HCAPLUS

CN Manganese, [[2,2'-([2,2'-bipyridine]-6,6'-diyl-κN1,κN1')bis[6-methoxyphenolato-κO]](2-)]chloro- (9CI) (CA INDEX NAME)

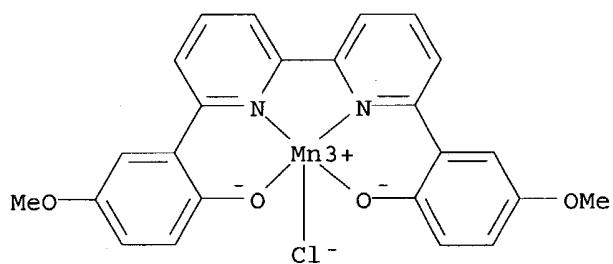


RN 259208-68-9 HCAPLUS

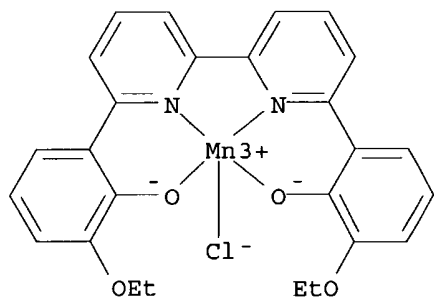
CN Manganese, [[2,2'-([2,2'-bipyridine]-6,6'-diyl-κN1,κN1')bis[phenolato-κO]](2-)]chloro- (9CI) (CA INDEX NAME)



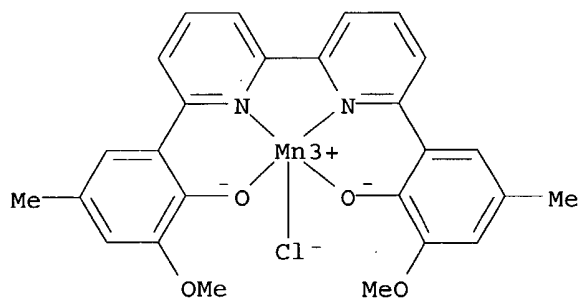
RN 259208-69-0 HCAPLUS  
 CN Manganese, [[2,2'-([2,2'-bipyridine]-6,6'-diyl-κN1,κN1'))bis[4-methoxyphenolato-κO]](2-)]chloro- (9CI) (CA INDEX NAME)



RN 259208-70-3 HCAPLUS  
 CN Manganese, [[2,2'-([2,2'-bipyridine]-6,6'-diyl-κN1,κN1'))bis[6-ethoxyphenolato-κO]](2-)]chloro- (9CI) (CA INDEX NAME)

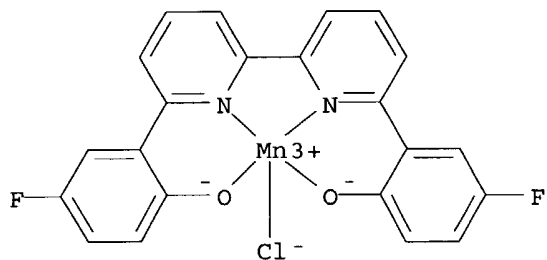


RN 259208-71-4 HCAPLUS  
 CN Manganese, [[2,2'-([2,2'-bipyridine]-6,6'-diyl-κN1,κN1'))bis[6-methoxy-4-methylphenolato-κO]](2-)]chloro- (9CI) (CA INDEX NAME)

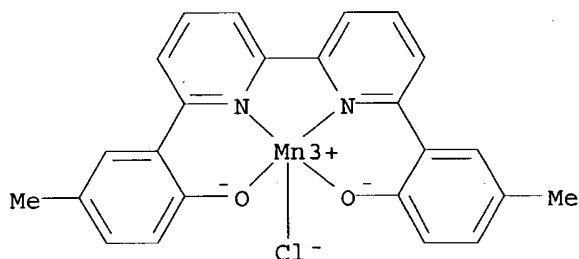




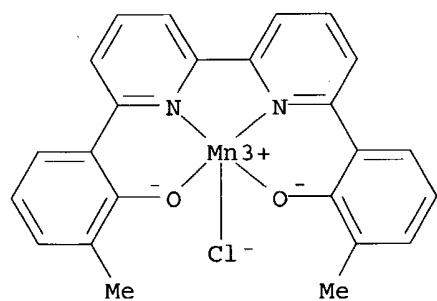
RN 259208-72-5 HCAPLUS  
 CN Manganese, [[2,2'-([2,2'-bipyridine]-6,6'-diyl-κN1,κN1')bis[4-fluorophenolato-κO]](2-)]chloro- (9CI) (CA INDEX NAME)



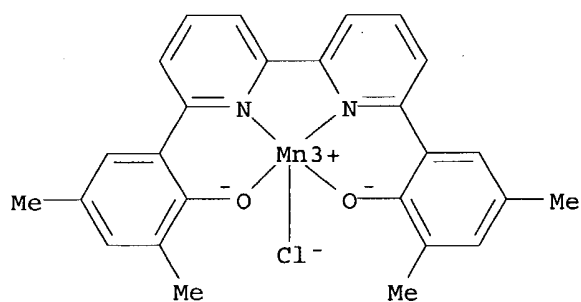
RN 259208-73-6 HCAPLUS  
 CN Manganese, [[2,2'-([2,2'-bipyridine]-6,6'-diyl-κN1,κN1')bis[4-methylphenolato-κO]](2-)]chloro- (9CI) (CA INDEX NAME)



RN 259208-74-7 HCAPLUS  
 CN Manganese, [[2,2'-([2,2'-bipyridine]-6,6'-diyl-κN1,κN1')bis[6-methylphenolato-κO]](2-)]chloro- (9CI) (CA INDEX NAME)

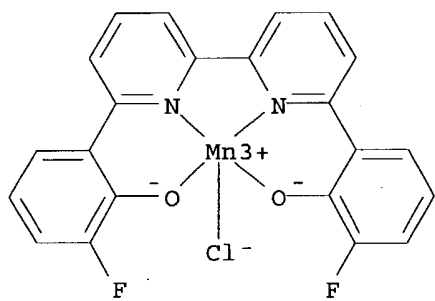


RN 259208-75-8 HCAPLUS  
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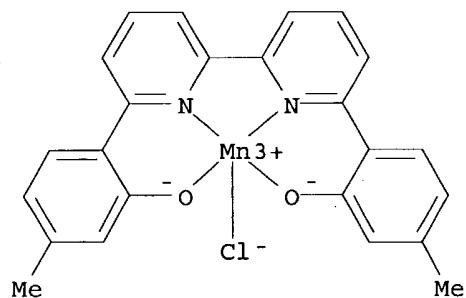
RN 259208-76-9 HCAPLUS

CN Manganese, [[2,2'-([2,2'-bipyridine]-6,6'-diyl-κN1,κN1')bis[6-fluorophenolato-κO]](2-)]chloro- (9CI) (CA INDEX NAME)



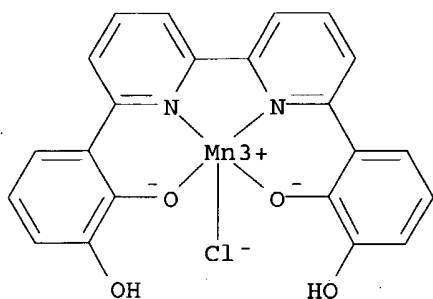
RN 259208-77-0 HCAPLUS

CN Manganese, [[2,2'-([2,2'-bipyridine]-6,6'-diyl-κN1,κN1')bis[5-methylphenolato-κO]](2-)]chloro- (9CI) (CA INDEX NAME)



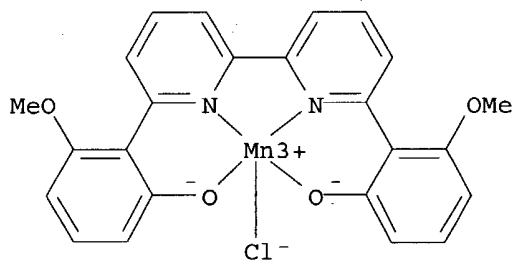
RN 259208-78-1 HCAPLUS

CN Manganese, [[3,3'-([2,2'-bipyridine]-6,6'-diyl-κN1,κN1')bis[1,2-benzenediolato-κO2]](2-)]chloro- (9CI) (CA INDEX NAME)



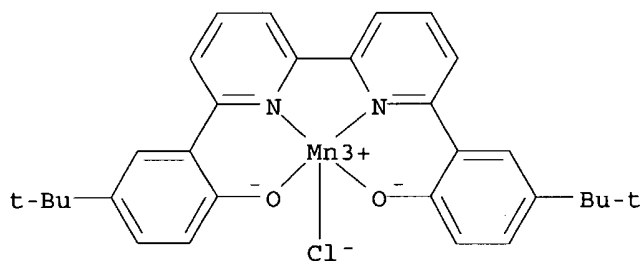
RN 259208-79-2 HCAPLUS

CN Manganese, [[2,2'-([2,2'-bipyridine]-6,6'-diyl-κN1,κN1'))bis[3-methoxyphenolato-κO]](2-)]chloro- (9CI) (CA INDEX NAME)



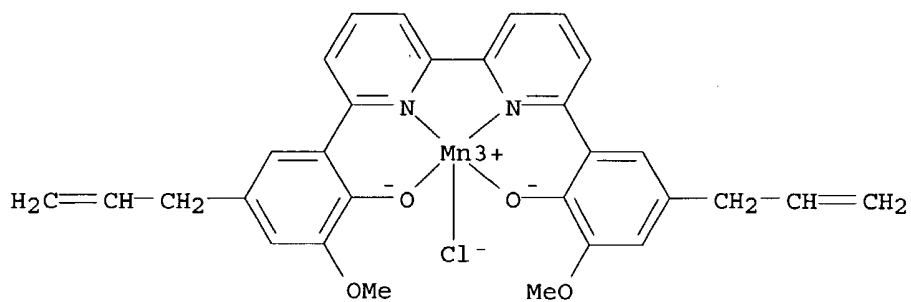
RN 259208-80-5 HCAPLUS

CN Manganese, [[2,2'-([2,2'-bipyridine]-6,6'-diyl-κN1,κN1'))bis[4-(1,1-dimethylethyl)phenolato-κO]](2-)]chloro- (9CI) (CA INDEX NAME)



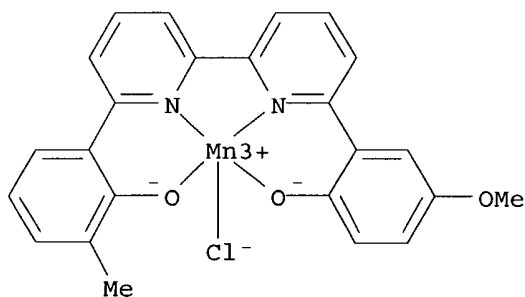
RN 259208-81-6 HCAPLUS

CN Manganese, [[2,2'-([2,2'-bipyridine]-6,6'-diyl-κN1,κN1'))bis[6-methoxy-4-(2-propenyl)phenolato-κO]](2-)]chloro- (9CI) (CA INDEX NAME)



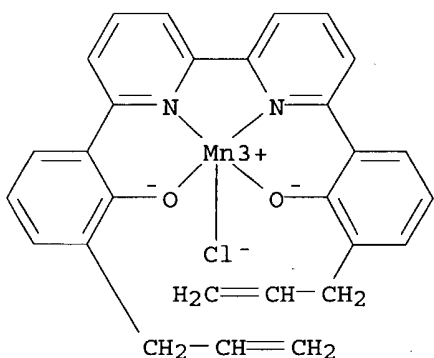
RN 259208-82-7 HCAPLUS

CN Manganese, chloro[2-[6'-[2-(hydroxy-κO)-3-methylphenyl][2,2'-bipyridin]-6-yl-κN1,κN1']-4-methoxyphenolato(2-)-κO]-(9CI) (CA INDEX NAME)



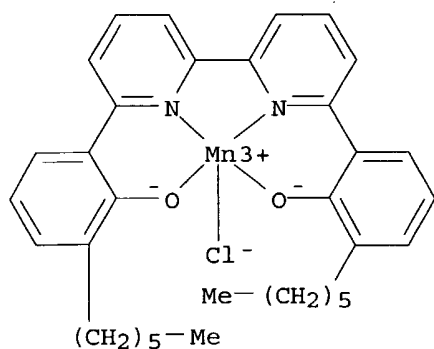
RN 259208-83-8 HCAPLUS

CN Manganese, [[2,2'-([2,2'-bipyridine]-6,6'-diyl-κN1,κN1')bis[6-(2-propenyl)phenolato-κO]](2-)]chloro-(9CI) (CA INDEX NAME)

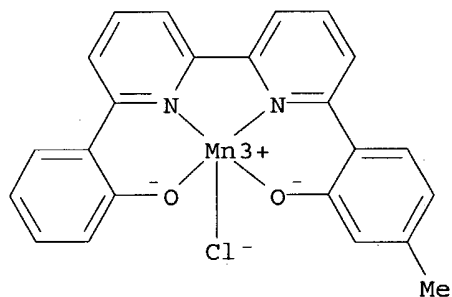


RN 259208-84-9 HCAPLUS

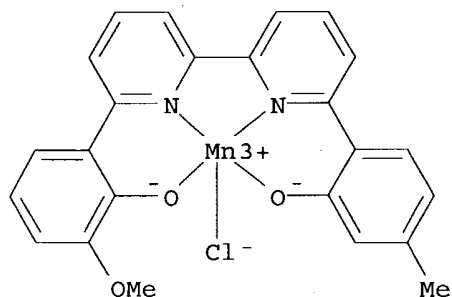
CN Manganese, [[2,2'-([2,2'-bipyridine]-6,6'-diyl-κN1,κN1')bis[6-hexylphenolato-κO]](2-)]chloro-(9CI) (CA INDEX NAME)



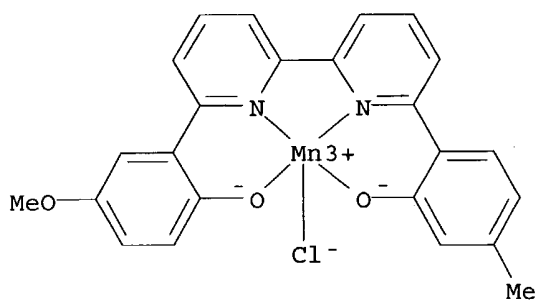
RN 259208-85-0 HCAPLUS  
 CN Manganese, chloro[2-[6'-[2-(hydroxy-κO)phenyl][2,2'-bipyridin]-6-yl-κN1,κN1']-5-methylphenolato(2-)-κO]- (9CI) (CA INDEX NAME)



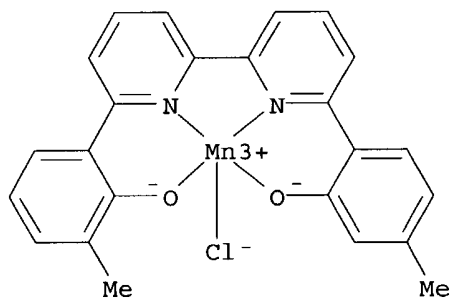
RN 259208-86-1 HCAPLUS  
 CN Manganese, chloro[2-[6'-[2-(hydroxy-κO)-3-methoxyphenyl][2,2'-bipyridin]-6-yl-κN1,κN1']-5-methylphenolato(2-)-κO]- (9CI) (CA INDEX NAME)



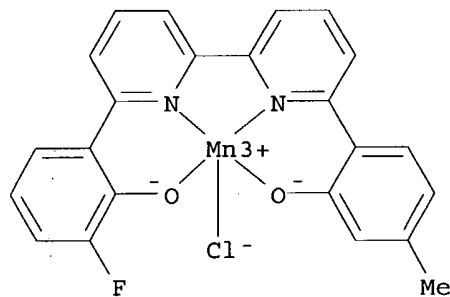
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 CN Manganese, chloro[2-[6'-[2-(hydroxy-κO)-4-methylphenyl][2,2'-bipyridin]-6-yl-κN1,κN1']-4-methoxyphenolato(2-)-κO]- (9CI) (CA INDEX NAME)



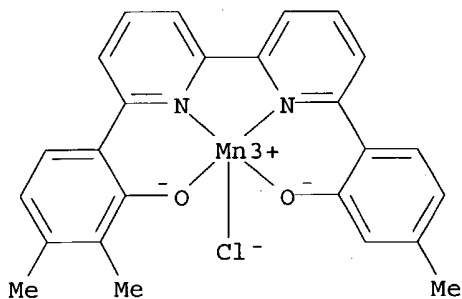
RN 259208-88-3 HCAPLUS  
 CN Manganese, chloro[2-[6'-[2-(hydroxy-κO)-3-methylphenyl][2,2'-bipyridin]-6-yl-κN1,κN1']-5-methylphenolato(2-)-κO]-(9CI) (CA INDEX NAME)



RN 259208-89-4 HCAPLUS  
 CN Manganese, chloro[2-[6'-[3-fluoro-2-(hydroxy-κO)phenyl][2,2'-bipyridin]-6-yl-κN1,κN1']-5-methylphenolato(2-)-κO]-(9CI) (CA INDEX NAME)

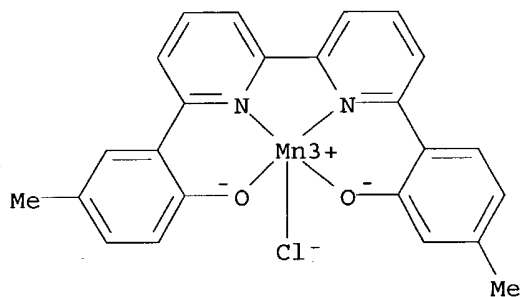


RN 259208-90-7 HCAPLUS  
 CN Manganese, chloro[6-[6'-[2-(hydroxy-κO)-4-methylphenyl][2,2'-bipyridin]-6-yl-κN1,κN1']-2,3-dimethylphenolato(2-)-κO]-(9CI) (CA INDEX NAME)



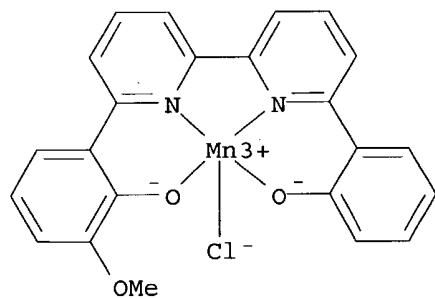
RN 259208-91-8 HCAPLUS

CN Manganese, chloro[2-[6'-[2-(hydroxy-κO)-4-methylphenyl][2,2'-bipyridin]-6-yl-κN1,κN1']-4-methylphenolato(2-)-κO]-(9CI) (CA INDEX NAME)



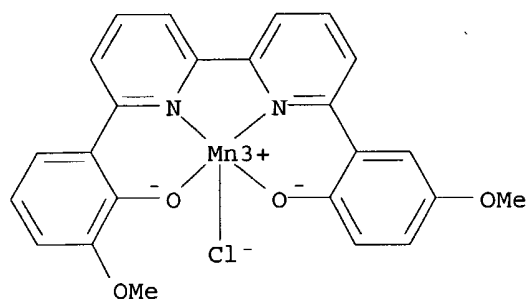
RN 259208-92-9 HCAPLUS

CN Manganese, chloro[2-[6'-[2-(hydroxy-κO)phenyl][2,2'-bipyridin]-6-yl-κN1,κN1']-6-methoxyphenolato(2-)-κO]-(9CI) (CA INDEX NAME)



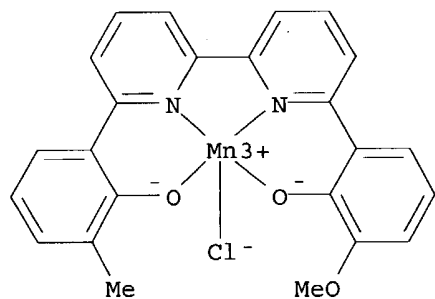
RN 259208-93-0 HCAPLUS

CN Manganese, chloro[2-[6'-[2-(hydroxy-κO)-3-methoxyphenyl][2,2'-bipyridin]-6-yl-κN1,κN1']-4-methoxyphenolato(2-)-κO]-(9CI) (CA INDEX NAME)



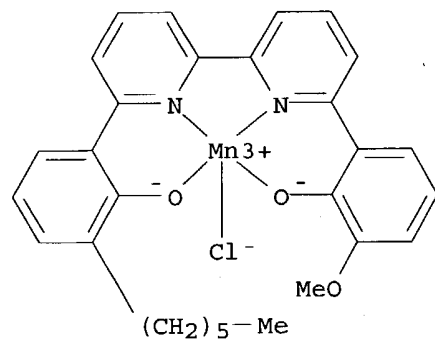
RN 259208-94-1 HCAPLUS

CN Manganese, chloro[2-[6'-[2-(hydroxy-κO)-3-methoxyphenyl][2,2'-bipyridin]-6-yl-κN1,κN1']-6-methylphenolato(2-)-κO]-(9CI) (CA INDEX NAME)



RN 259208-95-2 HCAPLUS

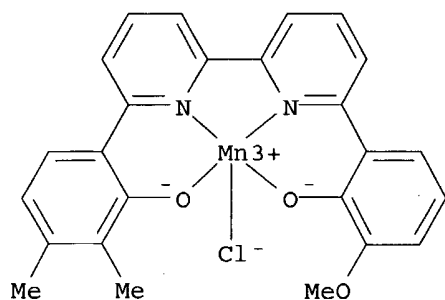
CN Manganese, chloro[2-hexyl-6-[6'-[2-(hydroxy-κO)-3-methoxyphenyl][2,2'-bipyridin]-6-yl-κN1,κN1']phenolato(2-)-κO]-(9CI) (CA INDEX NAME)



RN 259208-96-3 HCAPLUS

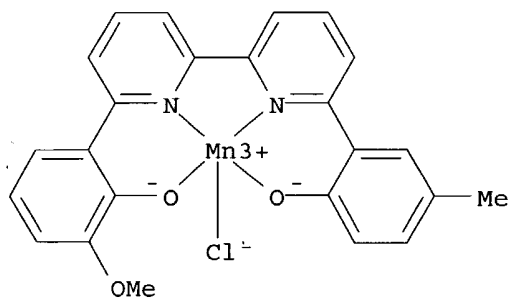
CN Manganese, chloro[6-[6'-[2-(hydroxy-κO)-3-methoxyphenyl][2,2'-bipyridin]-6-yl-κN1,κN1']-2,3-dimethylphenolato(2-)-κO]-(9CI) (CA INDEX NAME)





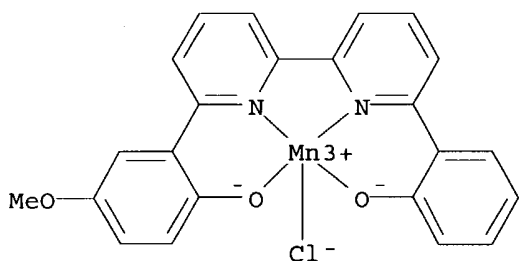
RN 259208-97-4 HCAPLUS

CN Manganese, chloro[2-[6'-[2-(hydroxy-κO)-3-methoxyphenyl][2,2'-bipyridin]-6-yl-κN1,κN1']-4-methylphenolato(2-)-κO]-(9CI) (CA INDEX NAME)



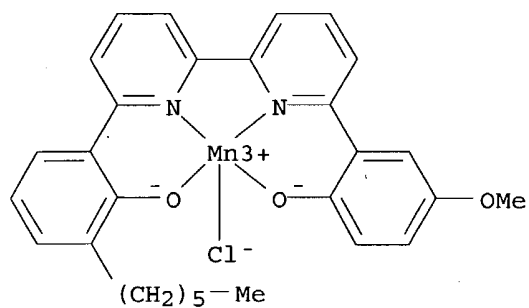
RN 259208-98-5 HCAPLUS

CN Manganese, chloro[2-[6'-[2-(hydroxy-κO)phenyl][2,2'-bipyridin]-6-yl-κN1,κN1']-4-methoxyphenolato(2-)-κO]-(9CI) (CA INDEX NAME)



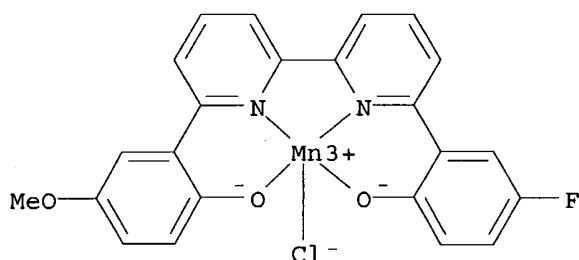
RN 259208-99-6 HCAPLUS

CN Manganese, chloro[2-[6'-[3-hexyl-2-(hydroxy-κO)phenyl][2,2'-bipyridin]-6-yl-κN1,κN1']-4-methoxyphenolato(2-)-κO]-(9CI) (CA INDEX NAME)



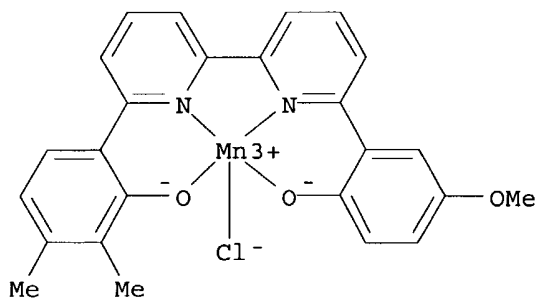
RN 259209-00-2 HCAPLUS

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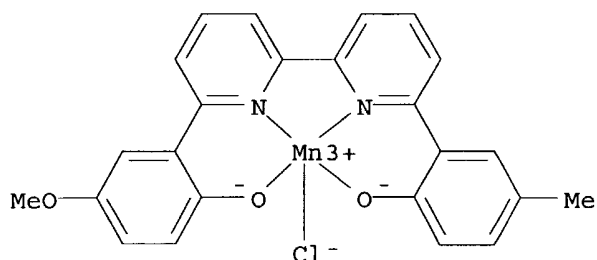
RN 259209-01-3 HCAPLUS

CN Manganese, chloro[6-[6'-[2-(hydroxy-κO)-5-methoxyphenyl]]-2,2'-bipyridin]-6-yl-κN1,κN1']-2,3-dimethylphenolato(2-)-κO]-(9CI) (CA INDEX NAME)



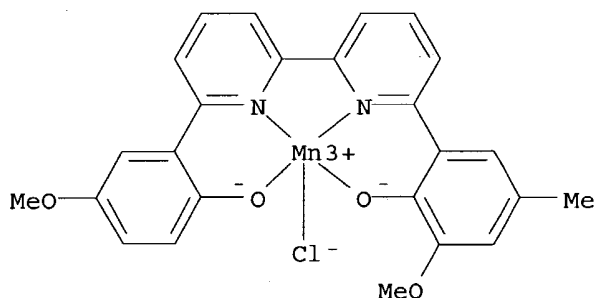
RN 259209-02-4 HCAPLUS

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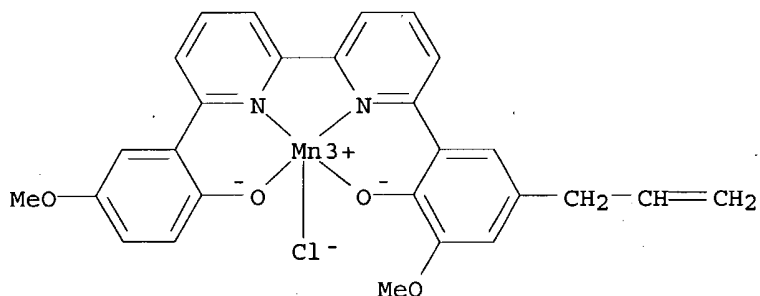
RN 259209-03-5 HCAPLUS

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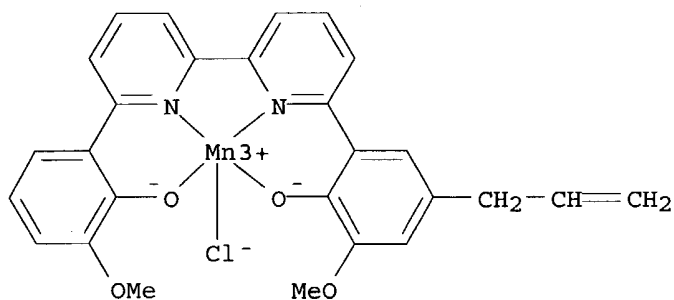
RN 259209-04-6 HCAPLUS

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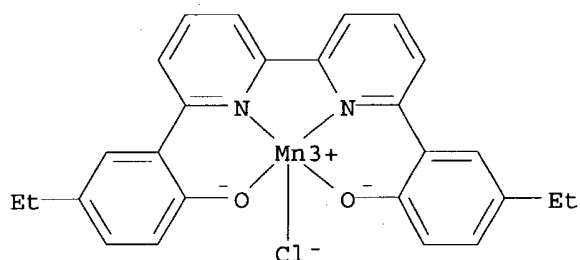


RN 259209-05-7 HCAPLUS

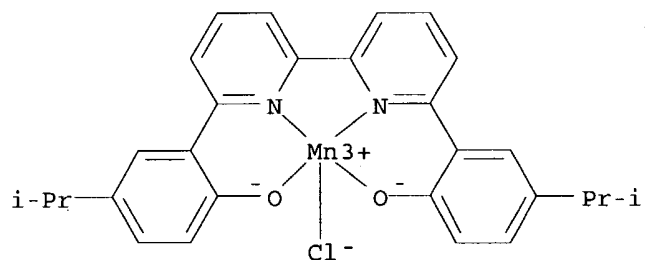
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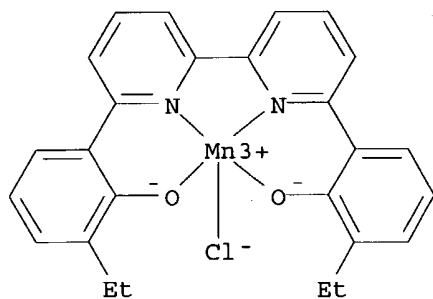
RN 259209-06-8 HCAPLUS  
 CN Manganese, chloro[[2,2'-([2,2'-bipyridine]-6,6'-diyl- $\kappa$ N1, $\kappa$ N1')bis[4-ethylphenolato- $\kappa$ O]](2-)]- (9CI) (CA INDEX NAME)



RN 259209-07-9 HCAPLUS  
 CN Manganese, chloro[[2,2'-([2,2'-bipyridine]-6,6'-diyl- $\kappa$ N1, $\kappa$ N1')bis[4-(1-methylethyl)phenolato- $\kappa$ O]](2-)]- (9CI) (CA INDEX NAME)



RN 259209-08-0 HCAPLUS  
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CA INDEXING COPYRIGHT (C) 2004 AMERICAN CHEMICAL SOCIETY (ACS)

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L58 29 S L27  
L59 112 S L57,L58  
L60 2 S L59 AND EYE?/CT  
L61 0 S L59 AND RETINA?/CT  
L62 3 S L59 AND (?RETINOP? OR ?RETINA OR ?RETINAL)  
L63 0 S L59 AND (MACUL?(L)DEGEN?)  
L64 0 S L59 AND (MACUL?(L)(EDEM? OR OEDEM?))  
L65 3 S L60,L62

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L67 190 S L66  
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L65 ANSWER 1 OF 3 USPATFULL on STN  
AN 2003:89395 USPATFULL  
TI Bipyridine manganese complexes  
IN Campbell, Ian Baxter, Broom, UNITED KINGDOM  
Walker, Ann Louise, Wood Green, UNITED KINGDOM  
Box, Philip Charles, Ware, UNITED KINGDOM  
Giblin, Gerard Martin Paul, Shefford, UNITED KINGDOM  
Tranter, George Edward, Kidlington, UNITED KINGDOM  
PA Eukarion, Inc., Bedford, MA, United States (U.S. corporation)  
PI US 6541490 B1 20030401

AI US 2000-722799 20001127 (9)  
 RLI Division of Ser. No. US 1999-376044, filed on 17 Aug 1999, now patented,  
 Pat. No. US 6177419  
 PRAI GB 1998-17845 19980817  
 DT Utility  
 FS GRANTED  
 EXNAM Primary Examiner: Rotman, Alan L.; Assistant Examiner: Robinson, Binta  
 LREP Hamilton, Brook, Smith & Reynolds, P.C.  
 CLMN Number of Claims: 2  
 ECL Exemplary Claim: 1  
 DRWN 0 Drawing Figure(s); 0 Drawing Page(s)  
 LN.CNT 2468  
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.  
 AB Compounds and methods of preparing compounds represented by structural  
 formula (I): ##STR1##

wherein X represents any suitable counter-anion;

R.sup.1 and R.sup.2 independently represent hydrogen, C.sub.1-6 alkoxy  
 or nitro;

R.sup.3, R.sup.4, R.sup.5 and R.sup.6 each independently represents  
 hydrogen, hydroxy, halo, C.sub.1-6 alkyl, C.sub.2-6 alkenyl or C.sub.1-6  
 alkoxy; and

R.sup.7, R.sup.8, R.sup.9 and R.sup.10 each independently represents  
 hydrogen, hydroxy, halo, C.sub.1-6 alkyl, C.sub.2-6 alkenyl or C.sub.1-6  
 alkoxy.

Compounds represented by structural formula (I) are useful in treating  
 or preventing free radical-associated diseases or conditions in mammals.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

SUMM . . . emphysema, chronic bronchitis, AIDS, inflammatory bowel  
 disease, pancreatitis, transplantation rejection, atherosclerosis,  
 hypertension, congestive heart failure, myocardial ischemic disorders,  
 angioplasty, endocarditis, **retinopathy** of prematurity,  
 cataract formation, uveitis, rheumatoid arthritis and osteoarthritis.

IT Autoimmune disease

IT Blood vessel, disease

IT Brain, disease

IT Eczema

IT Emphysema

IT **Eye, disease**

IT Oxidative stress, biological

IT Skin, disease

(preparation of manganese bis(hydroxyphenyl)bipyridine complexes for  
 treatment of)

IT 259208-25-8P 259208-26-9P 259208-27-0P

259208-28-1P 259208-29-2P 259208-30-5P

259208-31-6P 259208-32-7P 259208-33-8P

259208-34-9P 259208-35-0P 259208-36-1P

259208-37-2P 259208-38-3P 259208-39-4P

259208-40-7P 259208-41-8P 259208-42-9P

259208-43-0P 259208-44-1P 259208-45-2P

259208-46-3P 259208-47-4P 259208-48-5P

259208-49-6P 259208-50-9P 259208-51-0P

259208-52-1P 259208-53-2P 259208-54-3P

259208-55-4P 259208-56-5P 259208-57-6P

259208-58-7P 259208-59-8P 259208-60-1P

259208-61-2P 259208-62-3P 259208-63-4P

259208-64-5P 259208-65-6P 259208-66-7P

(preparation and conversion to chloro complex and use in treatment or

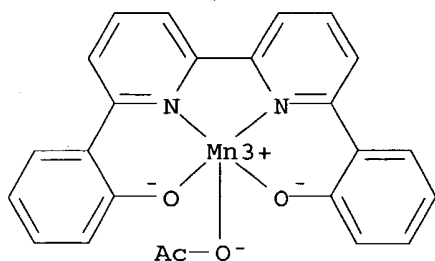
prevention of free radical-associated diseases or conditions in mammals)

IT 259208-67-8P 259208-68-9P 259208-69-0P  
 259208-70-3P 259208-71-4P 259208-72-5P  
 259208-73-6P 259208-74-7P 259208-75-8P  
 259208-76-9P 259208-77-0P 259208-78-1P  
 259208-79-2P 259208-80-5P 259208-81-6P  
 259208-82-7P 259208-83-8P 259208-84-9P  
 259208-85-0P 259208-86-1P 259208-87-2P  
 259208-88-3P 259208-89-4P 259208-90-7P  
 259208-91-8P 259208-92-9P 259208-93-0P  
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 (preparation and use in treatment or prevention of free radical-associated diseases or conditions in mammals)

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 (preparation and conversion to chloro complex and use in treatment or prevention of free radical-associated diseases or conditions in mammals)

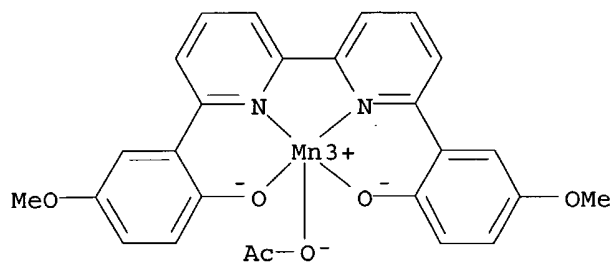
RN 259208-25-8 USPATFULL

CN Manganese, (acetato-κO) [[2,2'-([2,2'-bipyridine]-6,6'-diyl-κN1,κN1')bis[phenolato-κO]](2-)]- (9CI) (CA INDEX NAME)



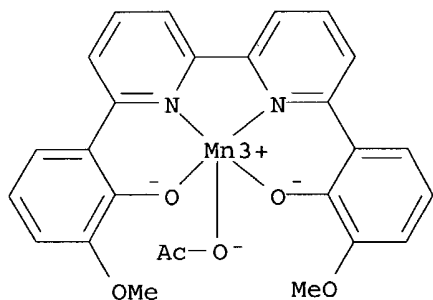
RN 259208-26-9 USPATFULL

CN Manganese, (acetato-κO) [[2,2'-([2,2'-bipyridine]-6,6'-diyl-κN1,κN1')bis[4-methoxyphenolato-κO]](2-)]- (9CI) (CA INDEX NAME)



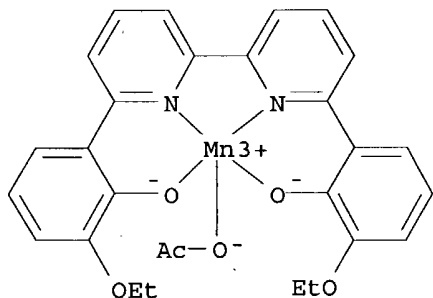
RN 259208-27-0 USPATFULL

CN Manganese, (acetato-κO) [[2,2'-([2,2'-bipyridine]-6,6'-diyl-κN1,κN1')]bis[6-methoxyphenolato-κO]](2-)]- (9CI) (CA INDEX NAME)



RN 259208-28-1 USPATFULL

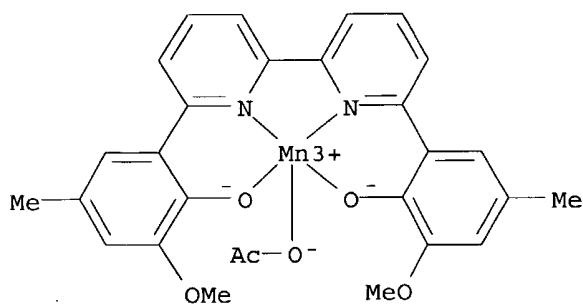
CN Manganese, (acetato-κO) [[2,2'-([2,2'-bipyridine]-6,6'-diyl-κN1,κN1')]bis[6-ethoxyphenolato-κO]](2-)]- (9CI) (CA INDEX NAME)



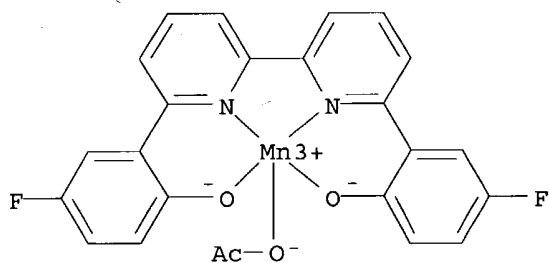
RN 259208-29-2 USPATFULL

CN Manganese, (acetato-κO) [[2,2'-([2,2'-bipyridine]-6,6'-diyl-κN1,κN1')]bis[6-methoxy-4-methylphenolato-κO]](2-)]- (9CI) (CA INDEX NAME)

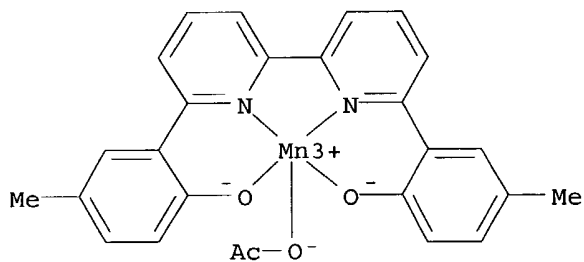




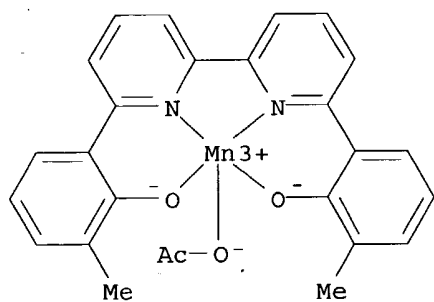
RN 259208-30-5 USPATFULL  
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RN 259208-31-6 USPATFULL  
 CN Manganese, (acetato-κO) [[2,2'-([2,2'-bipyridine]-6,6'-diyl-κN1,κN1')bis[4-methylphenolato-κO]](2-)]- (9CI) (CA INDEX NAME)

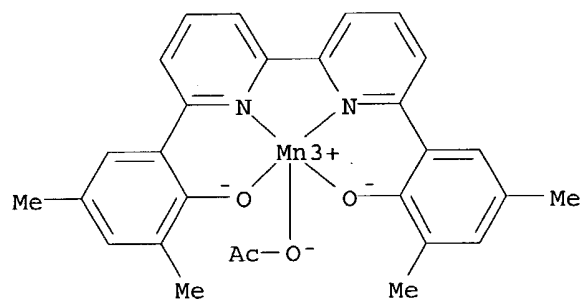


RN 259208-32-7 USPATFULL  
 CN Manganese, (acetato-κO) [[2,2'-([2,2'-bipyridine]-6,6'-diyl-κN1,κN1')bis[6-methylphenolato-κO]](2-)]- (9CI) (CA INDEX NAME)



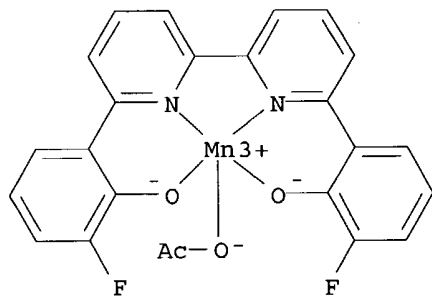
RN 259208-33-8 USPATFULL

CN Manganese, (acetato-κO) [[2,2'-([2,2'-bipyridine]-6,6'-diyl-κN1,κN1')]bis[4,6-dimethylphenolato-κO]](2-)]- (9CI)  
(CA INDEX NAME)



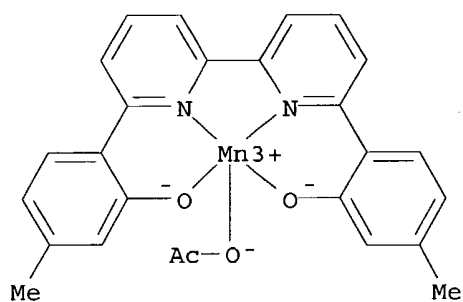
RN 259208-34-9 USPATFULL

CN Manganese, (acetato-κO) [[2,2'-([2,2'-bipyridine]-6,6'-diyl-κN1,κN1')]bis[6-fluorophenolato-κO]](2-)]- (9CI) (CA  
INDEX NAME)

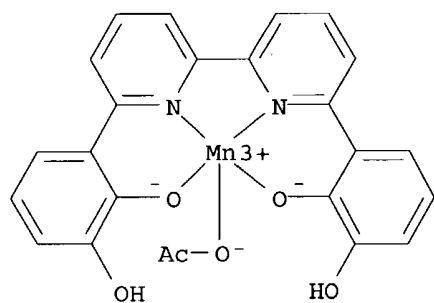


RN 259208-35-0 USPATFULL

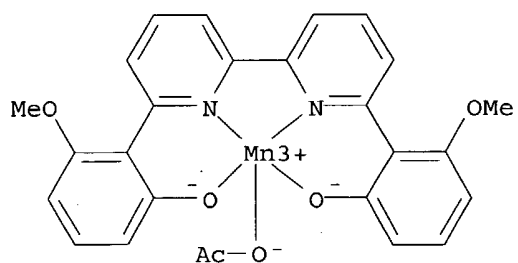
CN Manganese, (acetato-κO) [[2,2'-([2,2'-bipyridine]-6,6'-diyl-κN1,κN1')]bis[5-methylphenolato-κO]](2-)]- (9CI) (CA  
INDEX NAME)



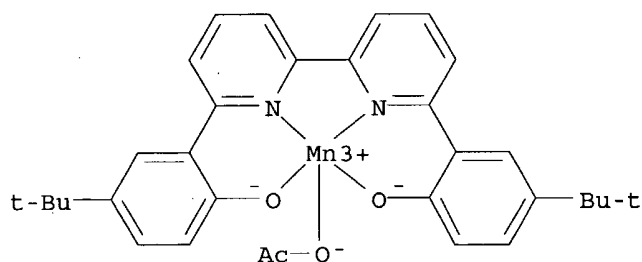
RN 259208-36-1 USPATFULL  
 CN Manganese, (acetato-κO) [[3,3'-([2,2'-bipyridine]-6,6'-diyl-κN1,κN1')bis[1,2-benzenediolato-κO2]](2-)]- (9CI) (CA INDEX NAME)



RN 259208-37-2 USPATFULL  
 CN Manganese, (acetato-κO) [[2,2'-([2,2'-bipyridine]-6,6'-diyl-κN1,κN1')bis[3-methoxyphenolato-κO]](2-)]- (9CI) (CA INDEX NAME)

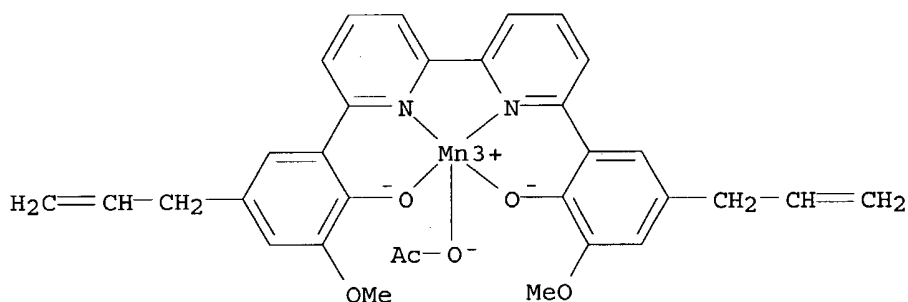


RN 259208-38-3 USPATFULL  
 CN Manganese, (acetato-κO) [[2,2'-([2,2'-bipyridine]-6,6'-diyl-κN1,κN1')bis[4-(1,1-dimethylethyl)phenolato-κO]](2-)]- (9CI) (CA INDEX NAME)



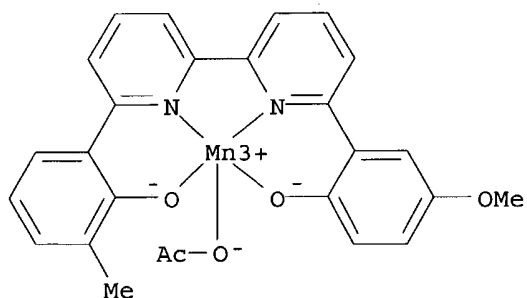
RN 259208-39-4 USPATFULL

CN Manganese, (acetato- $\kappa$ O) [[2,2'-([2,2'-bipyridine]-6,6'-diyl- $\kappa$ N1, $\kappa$ N1')]bis[6-methoxy-4-(2-propenyl)phenolato- $\kappa$ O]](2-)]- (9CI) (CA INDEX NAME)



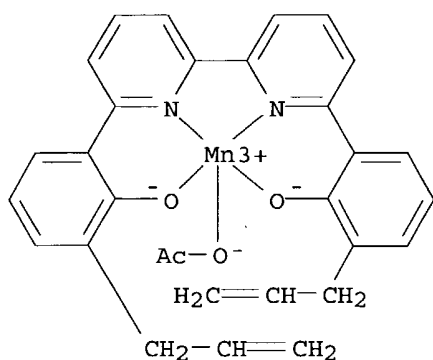
RN 259208-40-7 USPATFULL

CN Manganese, (acetato- $\kappa$ O) [2-[6'-[2-(hydroxy- $\kappa$ O)-3-methylphenyl][2,2'-bipyridin]-6-yl- $\kappa$ N1, $\kappa$ N1']-4-methoxyphenolato(2-)- $\kappa$ O]- (9CI) (CA INDEX NAME)



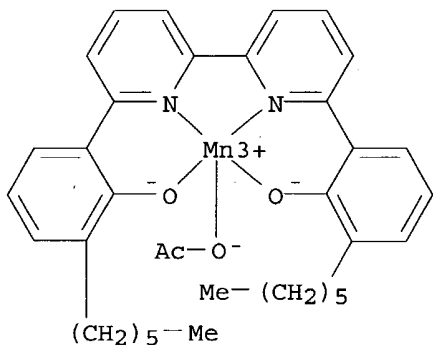
RN 259208-41-8 USPATFULL

CN Manganese, (acetato- $\kappa$ O) [[2,2'-([2,2'-bipyridine]-6,6'-diyl- $\kappa$ N1, $\kappa$ N1')]bis[6-(2-propenyl)phenolato- $\kappa$ O]](2-)]- (9CI) (CA INDEX NAME)



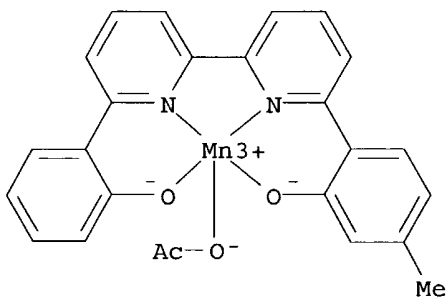
RN 259208-42-9 USPATFULL

CN Manganese, (acetato-κO) [[2,2'-( [2,2'-bipyridine]-6,6'-diyl-κN1,κN1')]bis[6-hexylphenolato-κO]](2-)]- (9CI) (CA INDEX NAME)



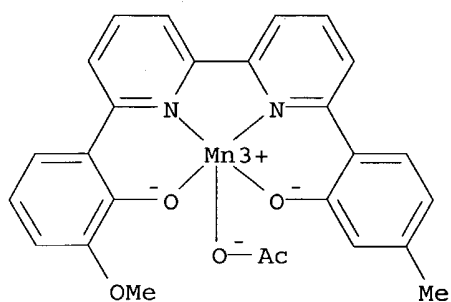
RN 259208-43-0 USPATFULL

CN Manganese, (acetato-κO) [2-[6'-[2-(hydroxy-κO)phenyl][2,2'-bipyridin]-6-yl-κN1,κN1']-5-methylphenolato(2-)-κO]- (9CI) (CA INDEX NAME)



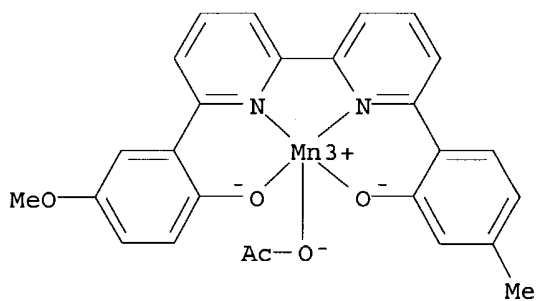
RN 259208-44-1 USPATFULL

CN Manganese, (acetato-κO) [2-[6'-[2-(hydroxy-κO)-3-methoxyphenyl][2,2'-bipyridin]-6-yl-κN1,κN1']-5-methylphenolato(2-)-κO]- (9CI) (CA INDEX NAME)



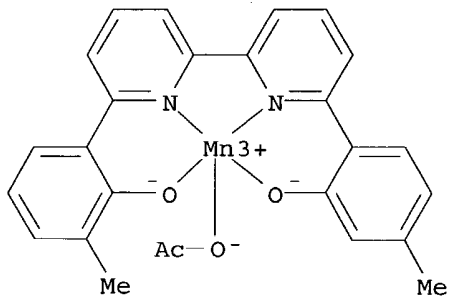
RN 259208-45-2 USPATFULL

CN Manganese, (acetato- $\kappa$ O) [2-[6'-[2-(hydroxy- $\kappa$ O)-4-methylphenyl] [2,2'-bipyridin]-6-yl- $\kappa$ N1, $\kappa$ N1']-4-methoxyphenolato(2-)- $\kappa$ O]- (9CI) (CA INDEX NAME)



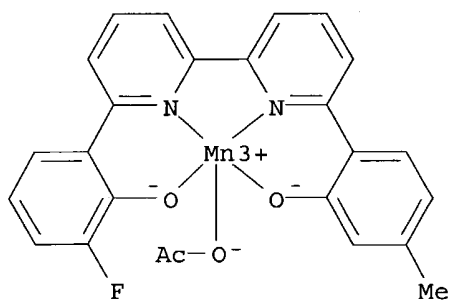
RN 259208-46-3 USPATFULL

CN Manganese, (acetato- $\kappa$ O) [2-[6'-[2-(hydroxy- $\kappa$ O)-3-methylphenyl] [2,2'-bipyridin]-6-yl- $\kappa$ N1, $\kappa$ N1']-5-methylphenolato(2-)- $\kappa$ O]- (9CI) (CA INDEX NAME)



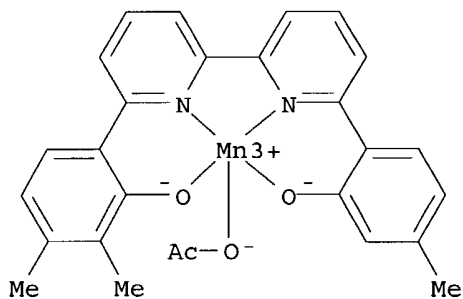
RN 259208-47-4 USPATFULL

CN Manganese, (acetato- $\kappa$ O) [2-[6'-[3-fluoro-2-(hydroxy- $\kappa$ O)phenyl] [2,2'-bipyridin]-6-yl- $\kappa$ N1, $\kappa$ N1']-5-methylphenolato(2-)- $\kappa$ O]- (9CI) (CA INDEX NAME)



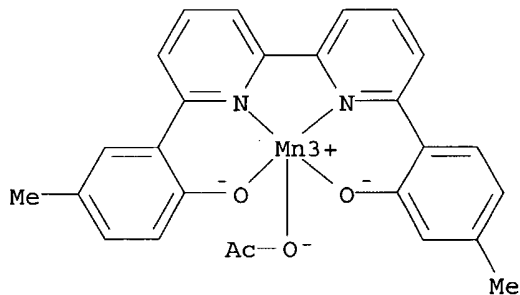
RN 259208-48-5 USPATFULL

CN Manganese, (acetato-κO) [6-[6'-[2-(hydroxy-κO)-4-methylphenyl] [2,2'-bipyridin]-6-yl-κN1,κN1']-2,3-dimethylphenolato(2-)-κO] - (9CI) (CA INDEX NAME)



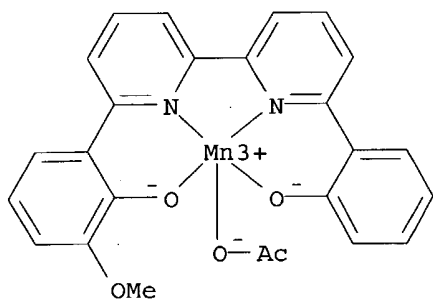
RN 259208-49-6 USPATFULL

CN Manganese, (acetato-κO) [2-[6'-[2-(hydroxy-κO)-4-methylphenyl] [2,2'-bipyridin]-6-yl-κN1,κN1']-4-methylphenolato(2-)-κO] - (9CI) (CA INDEX NAME)

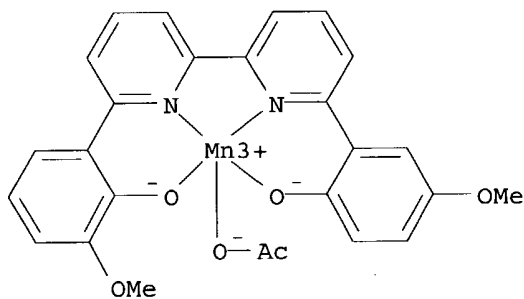


RN 259208-50-9 USPATFULL

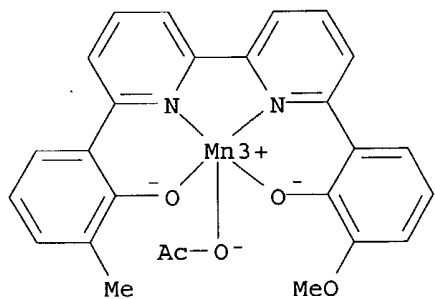
CN Manganese, (acetato-κO) [2-[6'-[2-(hydroxy-κO)phenyl] [2,2'-bipyridin]-6-yl-κN1,κN1']-6-methoxyphenolato(2-)-κO] - (9CI) (CA INDEX NAME)



RN 259208-51-0 USPATFULL  
 CN Manganese, (acetato-κO) [2-[6'-[2-(hydroxy-κO)-3-methoxyphenyl] [2,2'-bipyridin]-6-yl-κN1,κN1']-4-methoxyphenolato(2-)-κO]- (9CI) (CA INDEX NAME)

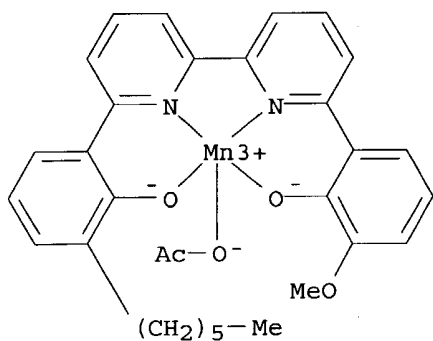


RN 259208-52-1 USPATFULL  
 CN Manganese, (acetato-κO) [2-[6'-[2-(hydroxy-κO)-3-methoxyphenyl] [2,2'-bipyridin]-6-yl-κN1,κN1']-6-methylphenolato(2-)-κO]- (9CI) (CA INDEX NAME)

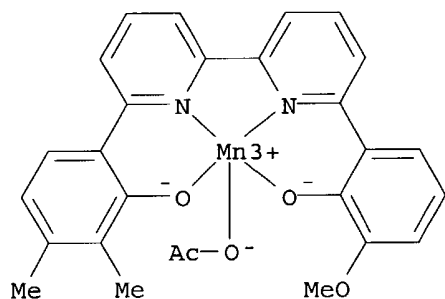


RN 259208-53-2 USPATFULL  
 CN Manganese, (acetato-κO) [2-[6'-[3-hexyl-2-(hydroxy-κO)phenyl] [2,2'-bipyridin]-6-yl-κN1,κN1']-6-methoxyphenolato(2-)-κO]- (9CI) (CA INDEX NAME)

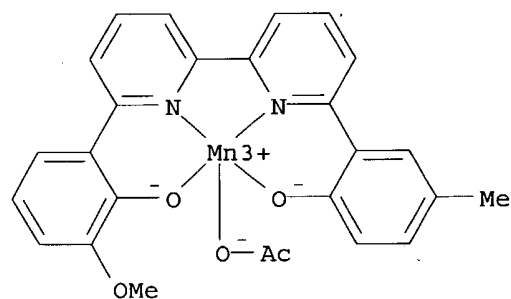




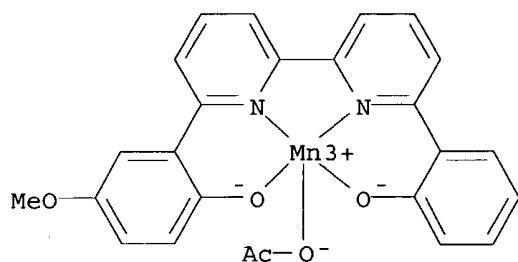
RN 259208-54-3 USPATFULL  
 CN Manganese, (acetato- $\kappa$ O) [6-[6'-[2-(hydroxy- $\kappa$ O)-3-methoxyphenyl] [2,2'-bipyridin]-6-yl- $\kappa$ N1, $\kappa$ N1']-2,3-dimethylphenolato(2-)- $\kappa$ O]- (9CI) (CA INDEX NAME)



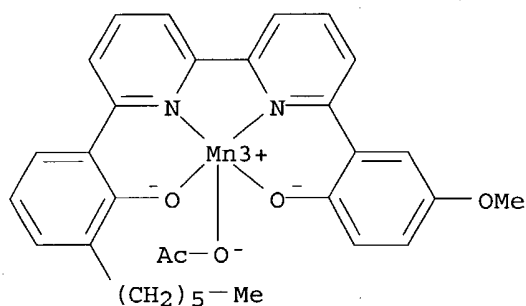
RN 259208-55-4 USPATFULL  
 CN Manganese, (acetato- $\kappa$ O) [2-[6'-[2-(hydroxy- $\kappa$ O)-3-methoxyphenyl] [2,2'-bipyridin]-6-yl- $\kappa$ N1, $\kappa$ N1']-4-methylphenolato(2-)- $\kappa$ O]- (9CI) (CA INDEX NAME)



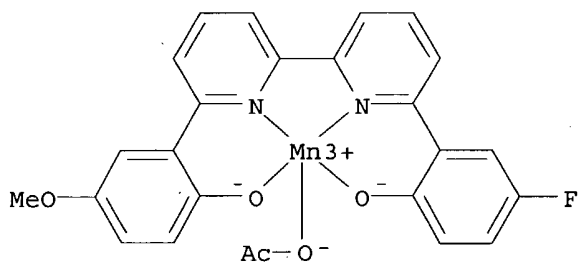
RN 259208-56-5 USPATFULL  
 CN Manganese, (acetato- $\kappa$ O) [2-[6'-[2-(hydroxy- $\kappa$ O)phenyl] [2,2'-bipyridin]-6-yl- $\kappa$ N1, $\kappa$ N1']-4-methoxyphenolato(2-)- $\kappa$ O]- (9CI) (CA INDEX NAME)



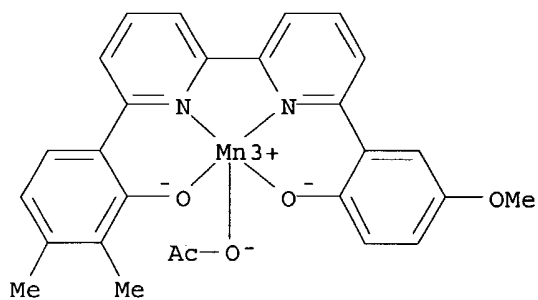
RN 259208-57-6 USPATFULL  
 CN Manganese, (acetato- $\kappa$ O) [2-[6'-[3-hexyl-2-(hydroxy- $\kappa$ O)phenyl][2,2'-bipyridin]-6-yl- $\kappa$ N1, $\kappa$ N1']-4-methoxyphenolato(2-)- $\kappa$ O]- (9CI) (CA INDEX NAME)



RN 259208-58-7 USPATFULL  
 CN Manganese, (acetato- $\kappa$ O) [4-fluoro-2-[6'-[2-(hydroxy- $\kappa$ O)-5-methoxyphenyl][2,2'-bipyridin]-6-yl- $\kappa$ N1, $\kappa$ N1']phenolato(2-)- $\kappa$ O]- (9CI) (CA INDEX NAME)

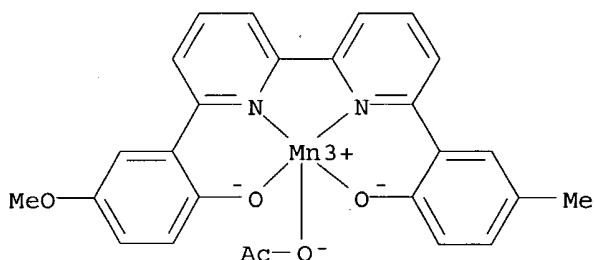


RN 259208-59-8 USPATFULL  
 CN Manganese, (acetato- $\kappa$ O) [6-[6'-[2-(hydroxy- $\kappa$ O)-5-methoxyphenyl][2,2'-bipyridin]-6-yl- $\kappa$ N1, $\kappa$ N1']-2,3-dimethylphenolato(2-)- $\kappa$ O]- (9CI) (CA INDEX NAME)



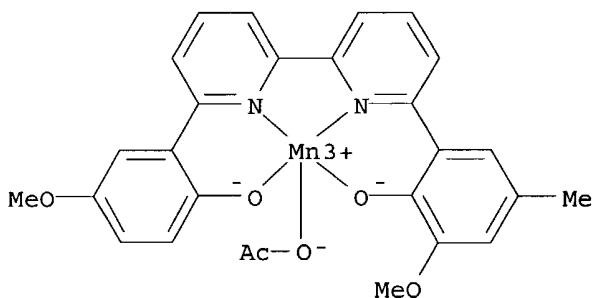
RN 259208-60-1 USPATFULL

CN Manganese, (acetato- $\kappa$ O) [2-[6'-[2-(hydroxy- $\kappa$ O)-5-methoxyphenyl] [2,2'-bipyridin]-6-yl- $\kappa$ N1, $\kappa$ N1']-4-methylphenolato(2-)- $\kappa$ O]- (9CI) (CA INDEX NAME)



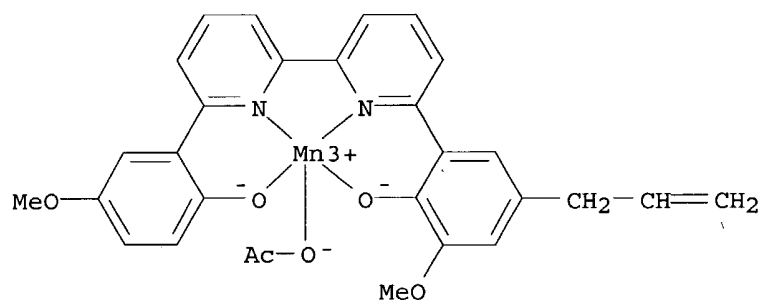
RN 259208-61-2 USPATFULL

CN Manganese, (acetato- $\kappa$ O) [2-[6'-[2-(hydroxy- $\kappa$ O)-5-methoxyphenyl] [2,2'-bipyridin]-6-yl- $\kappa$ N1, $\kappa$ N1']-6-methoxy-4-methylphenolato(2-)- $\kappa$ O]- (9CI) (CA INDEX NAME)



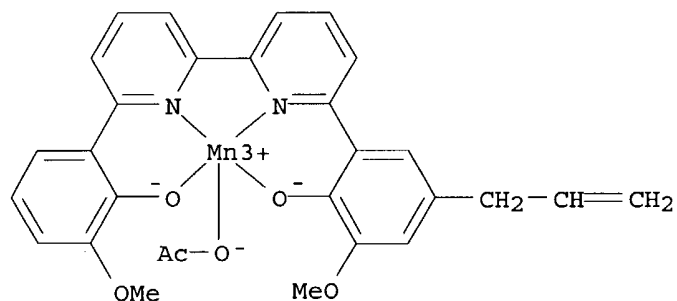
RN 259208-62-3 USPATFULL

CN Manganese, (acetato- $\kappa$ O) [2-[6'-[2-(hydroxy- $\kappa$ O)-5-methoxyphenyl] [2,2'-bipyridin]-6-yl- $\kappa$ N1, $\kappa$ N1']-6-methoxy-4-(2-propenyl)phenolato(2-)- $\kappa$ O]- (9CI) (CA INDEX NAME)



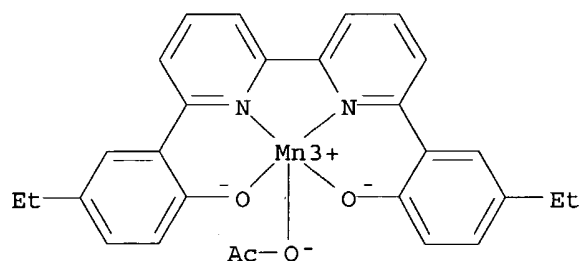
RN 259208-63-4 USPATFULL

CN Manganese, (acetato-κO) [2-[6'-[2-(hydroxy-κO)-3-methoxyphenyl][2,2'-bipyridin]-6-yl-κN1,κN1']-6-methoxy-4-(2-propenyl)phenolato(2-)-κO] - (9CI) (CA INDEX NAME)



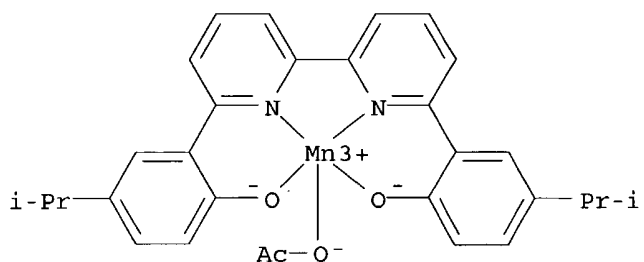
RN 259208-64-5 USPATFULL

CN Manganese, (acetato-κO) [[2,2'-([2,2'-bipyridine]-6,6'-diyl-κN1,κN1')bis[4-ethylphenolato-κO]](2-)] - (9CI) (CA INDEX NAME)



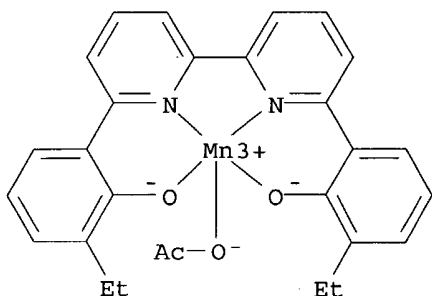
RN 259208-65-6 USPATFULL

CN Manganese, (acetato-κO) [[2,2'-([2,2'-bipyridine]-6,6'-diyl-κN1,κN1')bis[4-(1-methylethyl)phenolato-κO]](2-)] - (9CI) (CA INDEX NAME)



RN 259208-66-7 USPATFULL

CN Manganese, (acetato-κO) [[2,2'-(2,2'-bipyridine)-6,6'-diyl-κN1,κN1']bis[6-ethylphenolato-κO]](2-)]- (9CI) (CA INDEX NAME)



IT 259208-67-8P 259208-68-9P 259208-69-0P

259208-70-3P 259208-71-4P 259208-72-5P

259208-73-6P 259208-74-7P 259208-75-8P

259208-76-9P 259208-77-0P 259208-78-1P

259208-79-2P 259208-80-5P 259208-81-6P

259208-82-7P 259208-83-8P 259208-84-9P

259208-85-0P 259208-86-1P 259208-87-2P

259208-88-3P 259208-89-4P 259208-90-7P

259208-91-8P 259208-92-9P 259208-93-0P

259208-94-1P 259208-95-2P 259208-96-3P

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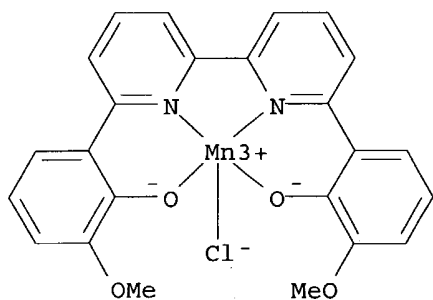
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(preparation and use in treatment or prevention of free radical-associated diseases or conditions in mammals)

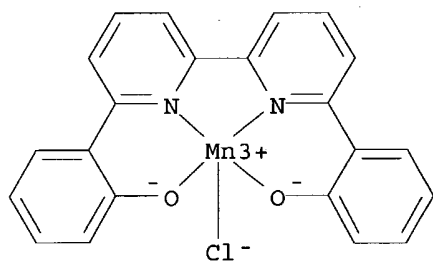
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CN Manganese, [[2,2'-(2,2'-bipyridine)-6,6'-diyl-κN1,κN1']bis[6-methoxyphenolato-κO]](2-)]chloro- (9CI) (CA INDEX NAME)



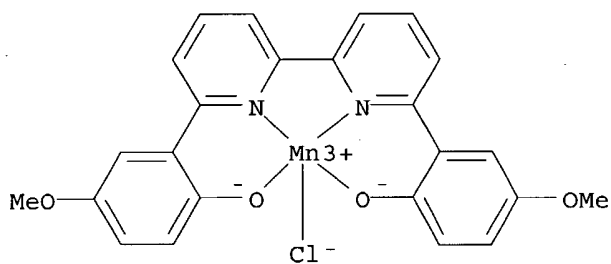
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CN Manganese, [[2,2'-([2,2'-bipyridine]-6,6'-diyl- $\kappa$ N1, $\kappa$ N1')]bis[phenolato- $\kappa$ O]](2-)]chloro- (9CI) (CA INDEX NAME)



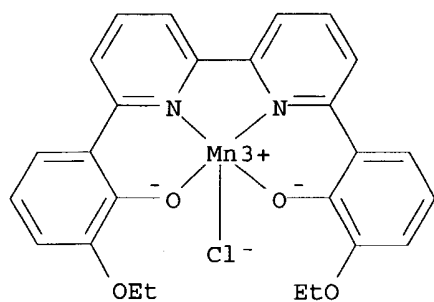
RN 259208-69-0 USPATFULL

CN Manganese, [[2,2'-([2,2'-bipyridine]-6,6'-diyl- $\kappa$ N1, $\kappa$ N1')]bis[4-methoxyphenolato- $\kappa$ O]](2-)]chloro- (9CI) (CA INDEX NAME)



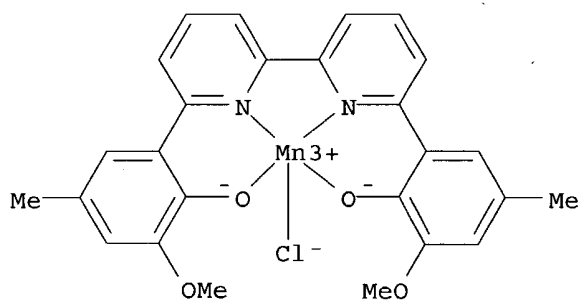
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CN Manganese, [[2,2'-([2,2'-bipyridine]-6,6'-diyl- $\kappa$ N1, $\kappa$ N1')]bis[6-ethoxyphenolato- $\kappa$ O]](2-)]chloro- (9CI) (CA INDEX NAME)



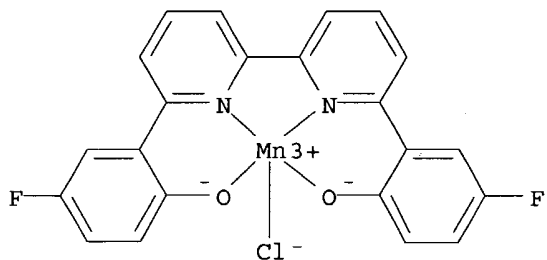
RN 259208-71-4 USPATFULL

CN Manganese, [[2,2'-([2,2'-bipyridine]-6,6'-diyl-κN1,κN1')bis[6-methoxy-4-methylphenolato-κO]](2-)]chloro- (9CI) (CA INDEX NAME)



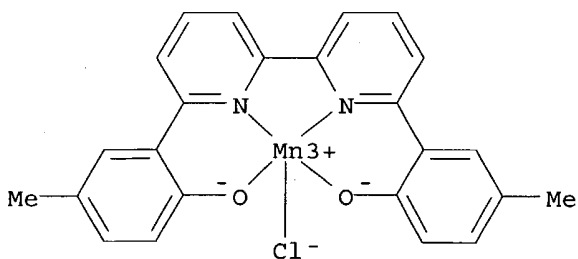
RN 259208-72-5 USPATFULL

CN Manganese, [[2,2'-([2,2'-bipyridine]-6,6'-diyl-κN1,κN1')bis[4-fluorophenolato-κO]](2-)]chloro- (9CI) (CA INDEX NAME)

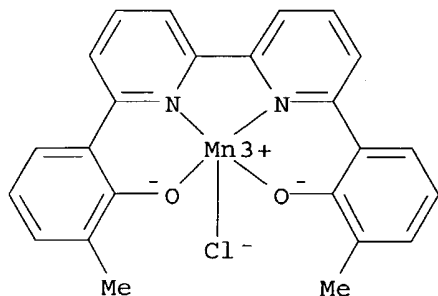


RN 259208-73-6 USPATFULL

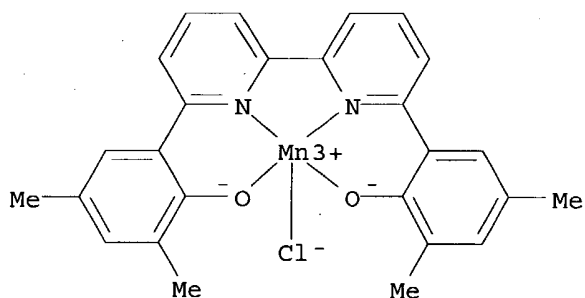
CN Manganese, [[2,2'-([2,2'-bipyridine]-6,6'-diyl-κN1,κN1')bis[4-methylphenolato-κO]](2-)]chloro- (9CI) (CA INDEX NAME)



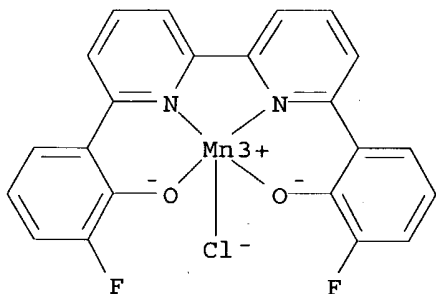
RN 259208-74-7 USPATFULL

CN Manganese, [[2,2'-([2,2'-bipyridine]-6,6'-diyl- $\kappa$ N1, $\kappa$ N1'))bis[6-methylphenolato- $\kappa$ O]](2-)]chloro- (9CI) (CA INDEX NAME)

RN 259208-75-8 USPATFULL

CN Manganese, [[2,2'-([2,2'-bipyridine]-6,6'-diyl- $\kappa$ N1, $\kappa$ N1'))bis[4,6-dimethylphenolato- $\kappa$ O]](2-)]chloro- (9CI) (CA INDEX NAME)

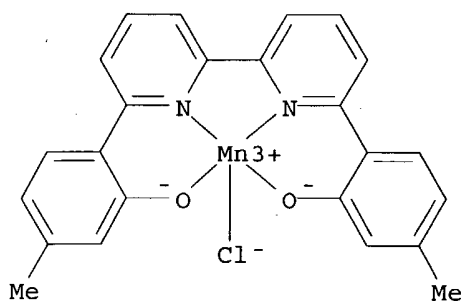
RN 259208-76-9 USPATFULL

CN Manganese, [[2,2'-([2,2'-bipyridine]-6,6'-diyl- $\kappa$ N1, $\kappa$ N1'))bis[6-fluorophenolato- $\kappa$ O]](2-)]chloro- (9CI) (CA INDEX NAME)

RN 259208-77-0 USPATFULL

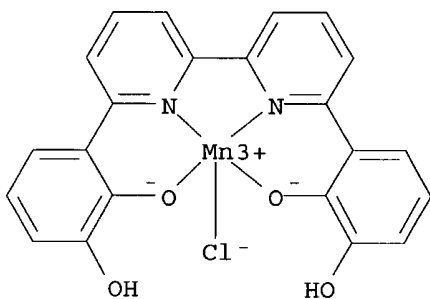
CN Manganese, [[2,2'-([2,2'-bipyridine]-6,6'-diyl- $\kappa$ N1, $\kappa$ N1'))bis[5-methylphenolato- $\kappa$ O]](2-)]chloro- (9CI) (CA INDEX NAME)





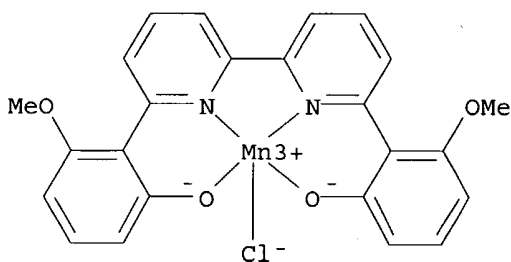
RN 259208-78-1 USPATFULL

CN Manganese, [[3,3'-([2,2'-bipyridine]-6,6'-diyl- $\kappa$ N1, $\kappa$ N1'))bis[1,2-benzenediolato- $\kappa$ O2]](2-)]chloro- (9CI) (CA INDEX NAME)



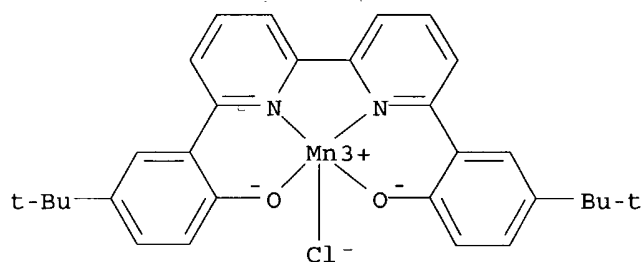
RN 259208-79-2 USPATFULL

CN Manganese, [[2,2'-([2,2'-bipyridine]-6,6'-diyl- $\kappa$ N1, $\kappa$ N1'))bis[3-methoxyphenolato- $\kappa$ O]](2-)]chloro- (9CI) (CA INDEX NAME)



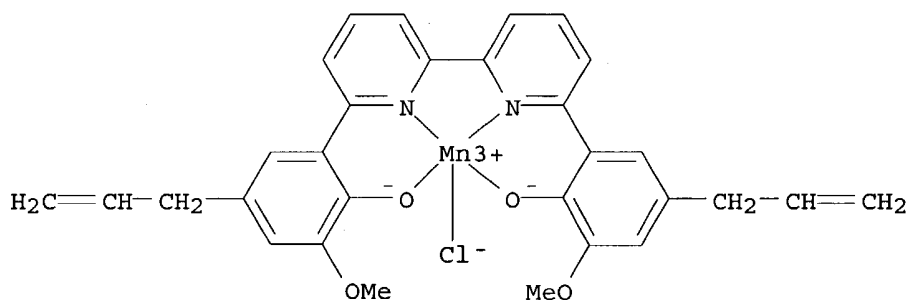
RN 259208-80-5 USPATFULL

CN Manganese, [[2,2'-([2,2'-bipyridine]-6,6'-diyl- $\kappa$ N1, $\kappa$ N1'))bis[4-(1,1-dimethylethyl)phenolato- $\kappa$ O]](2-)]chloro- (9CI) (CA INDEX NAME)



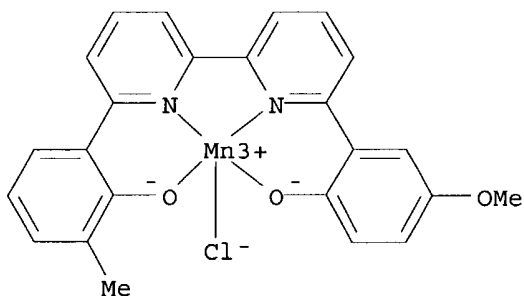
RN 259208-81-6 USPATFULL

CN Manganese, [[2,2'-([2,2'-bipyridine]-6,6'-diyl-κN1,κN1')]bis[6-methoxy-4-(2-propenyl)phenolato-κO]](2-)]chloro- (9CI) (CA INDEX NAME)



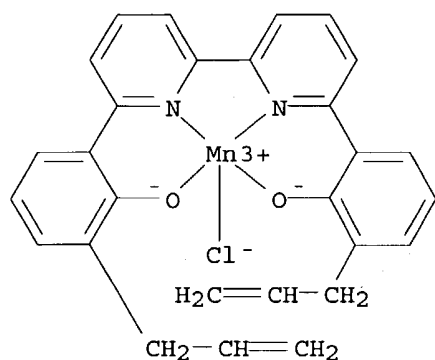
RN 259208-82-7 USPATFULL

CN Manganese, chloro[2-[6'-[2-(hydroxy-κO)-3-methylphenyl][2,2'-bipyridin]-6-yl-κN1,κN1']-4-methoxyphenolato(2-)-κO]- (9CI) (CA INDEX NAME)



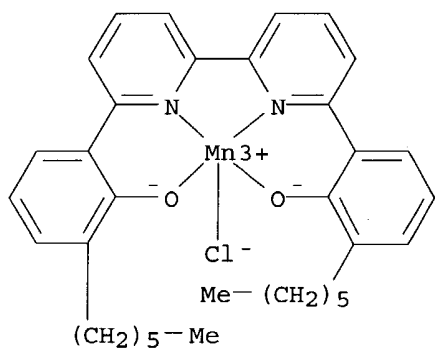
RN 259208-83-8 USPATFULL

CN Manganese, [[2,2'-([2,2'-bipyridine]-6,6'-diyl-κN1,κN1')]bis[6-(2-propenyl)phenolato-κO]](2-)]chloro- (9CI) (CA INDEX NAME)



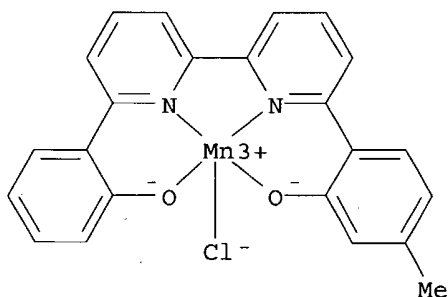
RN 259208-84-9 USPATFULL

CN Manganese, [[2,2'-([2,2'-bipyridine]-6,6'-diyl-κN1,κN1')]bis[6-hexylphenolato-κO]](2-)]chloro- (9CI) (CA INDEX NAME)



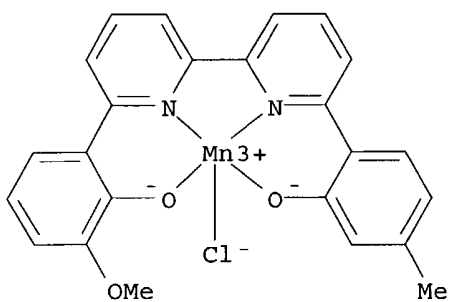
RN 259208-85-0 USPATFULL

CN Manganese, chloro[2-[6'-[2-(hydroxy-κO)phenyl][2,2'-bipyridin]-6-yl-κN1,κN1']-5-methylphenolato(2-)-κO]- (9CI) (CA INDEX NAME)



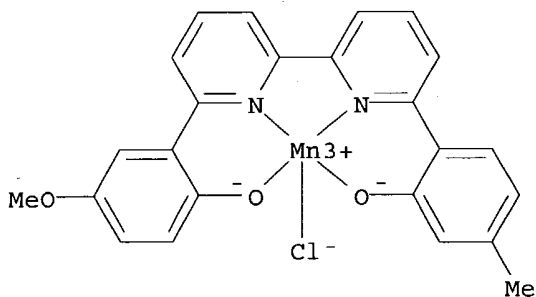
RN 259208-86-1 USPATFULL

CN Manganese, chloro[2-[6'-[2-(hydroxy-κO)-3-methoxyphenyl][2,2'-bipyridin]-6-yl-κN1,κN1']-5-methylphenolato(2-)-κO]- (9CI) (CA INDEX NAME)



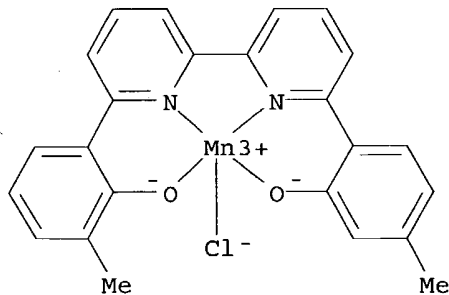
RN 259208-87-2 USPATFULL

CN Manganese, chloro[2-[6'-[2-(hydroxy-κO)-4-methylphenyl][2,2'-bipyridin]-6-yl-κN1,κN1']-4-methoxyphenolato(2-)-κO]-(9CI) (CA INDEX NAME)



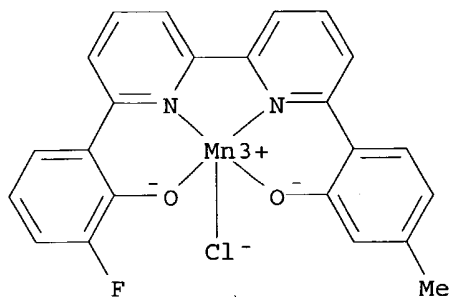
RN 259208-88-3 USPATFULL

CN Manganese, chloro[2-[6'-[2-(hydroxy-κO)-3-methylphenyl][2,2'-bipyridin]-6-yl-κN1,κN1']-5-methylphenolato(2-)-κO]-(9CI) (CA INDEX NAME)



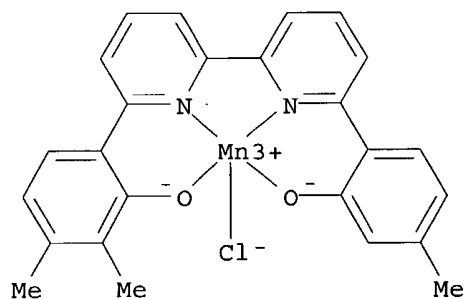
RN 259208-89-4 USPATFULL

CN Manganese, chloro[2-[6'-[3-fluoro-2-(hydroxy-κO)phenyl][2,2'-bipyridin]-6-yl-κN1,κN1']-5-methylphenolato(2-)-κO]-(9CI) (CA INDEX NAME)



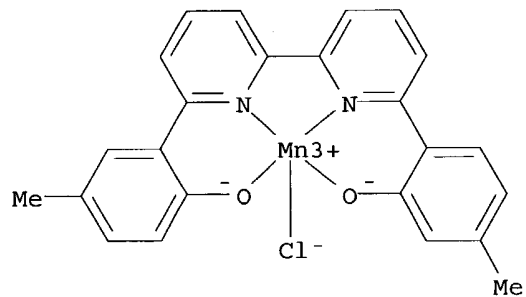
RN 259208-90-7 USPATFULL

CN Manganese, chloro[6-[6'-[2-(hydroxy-κO)-4-methylphenyl][2,2'-bipyridin]-6-yl-κN1,κN1']-2,3-dimethylphenolato(2-)-κO]- (9CI) (CA INDEX NAME)



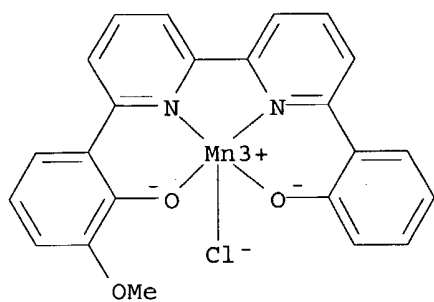
RN 259208-91-8 USPATFULL

CN Manganese, chloro[2-[6'-[2-(hydroxy-κO)-4-methylphenyl][2,2'-bipyridin]-6-yl-κN1,κN1']-4-methylphenolato(2-)-κO]- (9CI) (CA INDEX NAME)



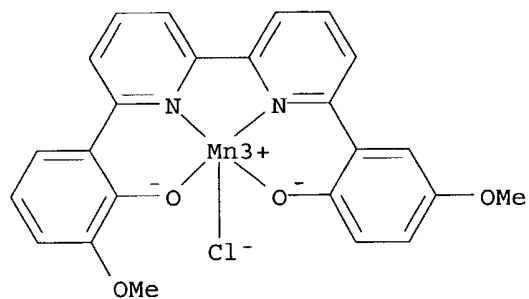
RN 259208-92-9 USPATFULL

CN Manganese, chloro[2-[6'-[2-(hydroxy-κO)phenyl][2,2'-bipyridin]-6-yl-κN1,κN1']-6-methoxyphenolato(2-)-κO]- (9CI) (CA INDEX NAME)



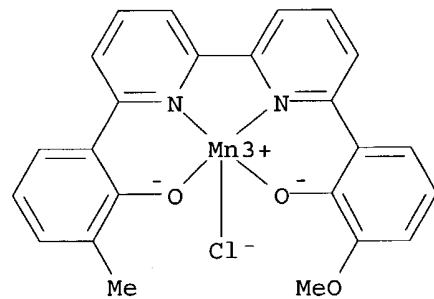
RN 259208-93-0 USPATFULL

CN Manganese, chloro[2-[6'-[2-(hydroxy-κO)-3-methoxyphenyl][2,2'-bipyridin]-6-yl-κN1,κN1']-4-methoxyphenolato(2-)-κO]-(9CI) (CA INDEX NAME)



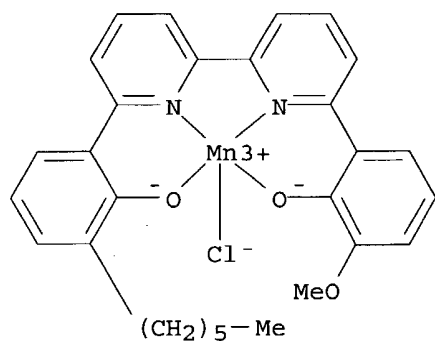
RN 259208-94-1 USPATFULL

CN Manganese, chloro[2-[6'-[2-(hydroxy-κO)-3-methoxyphenyl][2,2'-bipyridin]-6-yl-κN1,κN1']-6-methylphenolato(2-)-κO]-(9CI) (CA INDEX NAME)



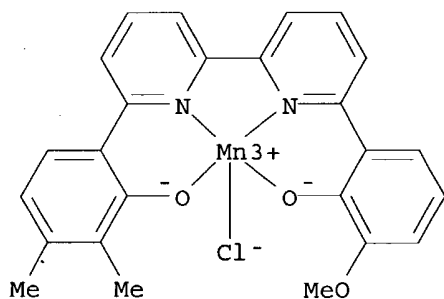
RN 259208-95-2 USPATFULL

CN Manganese, chloro[2-hexyl-6-[6'-[2-(hydroxy-κO)-3-methoxyphenyl][2,2'-bipyridin]-6-yl-κN1,κN1']phenolato(2-)-κO]-(9CI) (CA INDEX NAME)



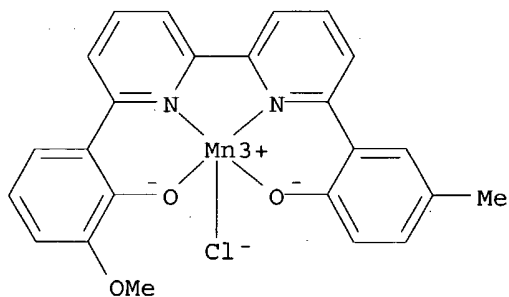
RN 259208-96-3 USPATFULL

CN Manganese, chloro[6-[6'-[2-(hydroxy-κO)-3-methoxyphenyl][2,2'-bipyridin]-6-yl-κN1,κN1']-2,3-dimethylphenolato(2-)-κO]-(9CI) (CA INDEX NAME)



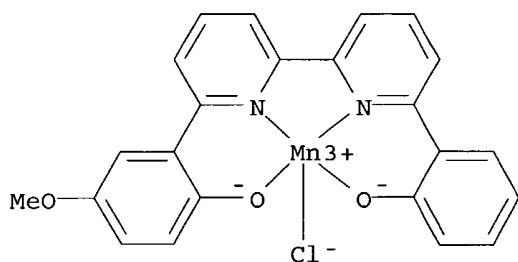
RN 259208-97-4 USPATFULL

CN Manganese, chloro[2-[6'-[2-(hydroxy-κO)-3-methoxyphenyl][2,2'-bipyridin]-6-yl-κN1,κN1']-4-methylphenolato(2-)-κO]-(9CI) (CA INDEX NAME)



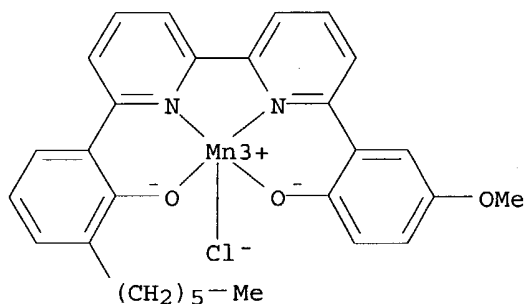
RN 259208-98-5 USPATFULL

CN Manganese, chloro[2-[6'-[2-(hydroxy-κO)phenyl][2,2'-bipyridin]-6-yl-κN1,κN1']-4-methoxyphenolato(2-)-κO]-(9CI) (CA INDEX NAME)



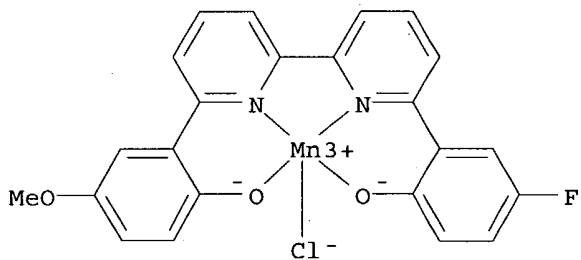
RN 259208-99-6 USPATFULL

CN Manganese, chloro[2-[6'-[3-hexyl-2-(hydroxy-κO)phenyl][2,2'-bipyridin]-6-yl-κN1,κN1']-4-methoxyphenolato(2-)-κO]-(9CI) (CA INDEX NAME)



RN 259209-00-2 USPATFULL

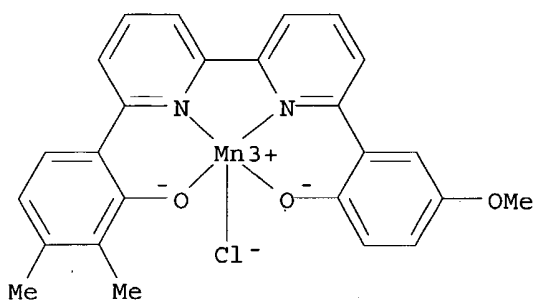
CN Manganese, chloro[4-fluoro-2-[6'-[2-(hydroxy-κO)-5-methoxyphenyl][2,2'-bipyridin]-6-yl-κN1,κN1']phenolato-κO]-(9CI) (CA INDEX NAME)



RN 259209-01-3 USPATFULL

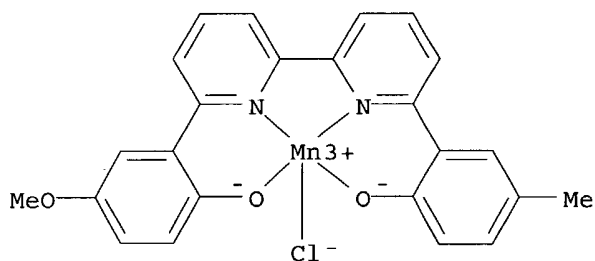
CN Manganese, chloro[6-[6'-[2-(hydroxy-κO)-5-methoxyphenyl][2,2'-bipyridin]-6-yl-κN1,κN1']-2,3-dimethylphenolato(2-)-κO]-(9CI) (CA INDEX NAME)





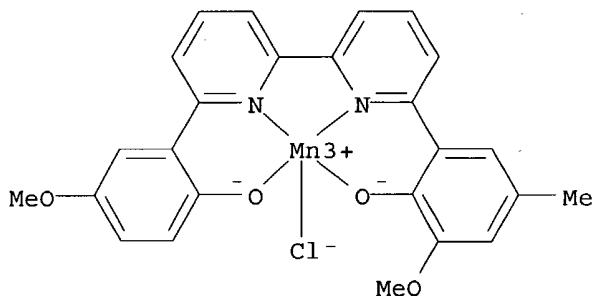
RN 259209-02-4 USPATFULL

CN Manganese, chloro[2-[6'-[2-(hydroxy-κO)-5-methoxyphenyl][2,2'-bipyridin]-6-yl-κN1,κN1']-4-methylphenolato(2-)-κO]-(9CI) (CA INDEX NAME)



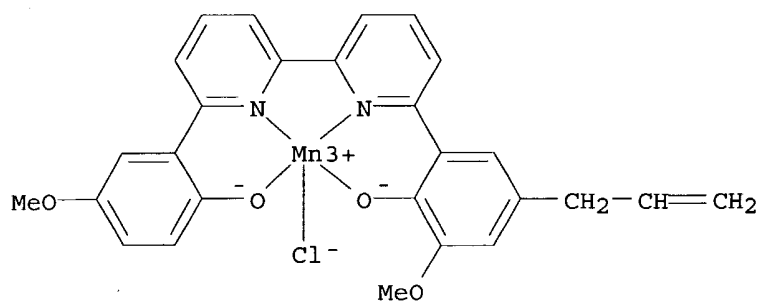
RN 259209-03-5 USPATFULL

CN Manganese, chloro[2-[6'-[2-(hydroxy-κO)-5-methoxyphenyl][2,2'-bipyridin]-6-yl-κN1,κN1']-6-methoxy-4-methylphenolato(2-)-κO]-(9CI) (CA INDEX NAME)



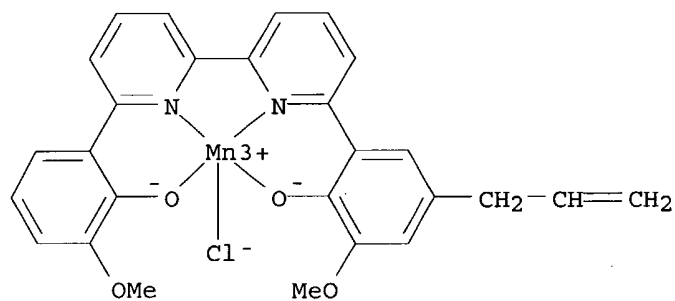
RN 259209-04-6 USPATFULL

CN Manganese, chloro[2-[6'-[2-(hydroxy-κO)-5-methoxyphenyl][2,2'-bipyridin]-6-yl-κN1,κN1']-6-methoxy-4-(2-propenyl)phenolato(2-)-κO]-(9CI) (CA INDEX NAME)



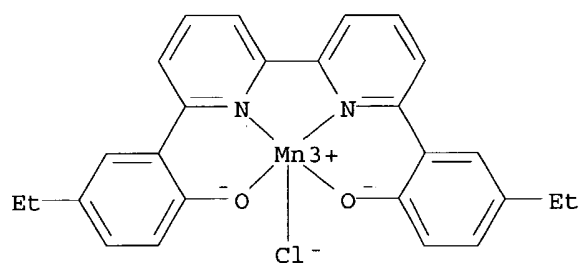
RN 259209-05-7 USPATFULL

CN Manganese, chloro[2-[6'-[2-(hydroxy-κO)-3-methoxyphenyl][2,2'-bipyridin]-6-yl-κN1,κN1']-6-methoxy-4-(2-propenyl)phenolato(2-)-κO]- (9CI) (CA INDEX NAME)



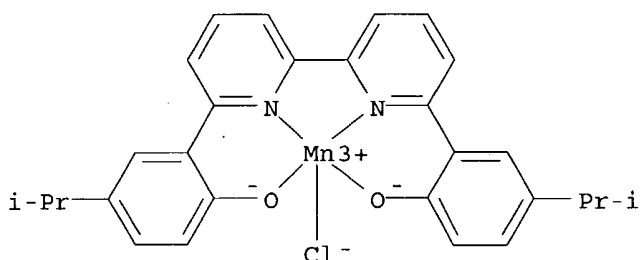
RN 259209-06-8 USPATFULL

CN Manganese, chloro[[2,2'-([2,2'-bipyridine]-6,6'-diyl-κN1,κN1')bis[4-ethylphenolato-κO]](2-)]- (9CI) (CA INDEX NAME)



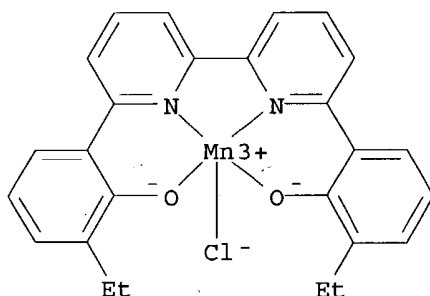
RN 259209-07-9 USPATFULL

CN Manganese, chloro[[2,2'-([2,2'-bipyridine]-6,6'-diyl-κN1,κN1')bis[4-(1-methylethyl)phenolato-κO]](2-)]- (9CI) (CA INDEX NAME)



RN 259209-08-0 USPTAFULL

CN Manganese, chloro[[2,2'-([2,2'-bipyridine]-6,6'-diyl- $\kappa$ N1, $\kappa$ N1')bis[6-ethylphenolato- $\kappa$ O]](2-)]- (9CI) (CA INDEX NAME)



L65 ANSWER 2 OF 3 USPTAFULL on STN

AN 2002:160740 USPTAFULL

TI Benzopyranyl heterocycle derivatives, process for preparation thereof, and pharmaceutical compositions containing them

IN Yoo, Sung-Eun, Chungchongnam-do, KOREA, REPUBLIC OF

Lee, Sun Kyung, Taejon-si, KOREA, REPUBLIC OF

Yi, Kyu Yang, Taejon-si, KOREA, REPUBLIC OF

Kim, Nak Jeong, Taejon-si, KOREA, REPUBLIC OF

Suh, Jee Hee, Taejon-si, KOREA, REPUBLIC OF

Shin, Hwa Sup, Taejon-si, KOREA, REPUBLIC OF

Lee, Byung Ho, Taejon-si, KOREA, REPUBLIC OF

Seo, Ho Won, Taejon-si, KOREA, REPUBLIC OF

Lim, Hong, Seoul, KOREA, REPUBLIC OF

Kim, Sun-Ok, Taejon-si, KOREA, REPUBLIC OF

Lee, Dongha, Taejon-si, KOREA, REPUBLIC OF

Cho, Insun, Taejon-si, KOREA, REPUBLIC OF

Namgung, Miae, Taejon-si, KOREA, REPUBLIC OF

Jang, Dongsoo, Taejon-si, KOREA, REPUBLIC OF

PA Dongbu Hannong Chemical Co. Ltd., Seoul, KOREA, REPUBLIC OF (non-U.S. corporation)

PI US 6413983 B1 20020702

AI US 2000-724029 20001128 (9)

PRAI KR 2000-59354 20001009

DT Utility

FS GRANTED

EXNAM Primary Examiner: Seaman, D. Margaret

LREP Bachman & LaPointe, P.C.

CLMN Number of Claims: 17

ECL Exemplary Claim: 1

DRWN 0 Drawing Figure(s); 0 Drawing Page(s)

LN.CNT 2825

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention relates to novel benzopyranyl heterocycle derivatives of the formula 1, process for preparation thereof and pharmaceutical use of the benzopyranyl heterocycle derivatives. The benzopyranyl heterocycle derivatives of the present invention can be used for protecting heart, brain, **retina** and neuronal cell from "ischemia-reperfusion" injury, treatment for diseases related to it and suppressing lipid peroxidation. ##STR1##

Wherein R.sub.1, R.sub.2, R.sub.3, R.sub.4, n and \* are each defined in specification.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB . . . of the benzopyranyl heterocycle derivatives. The benzopyranyl heterocycle derivatives of the present invention can be used for protecting heart, brain, **retina** and neuronal cell from "ischemia-reperfusion" injury, treatment for diseases related to it and suppressing lipid peroxidation. ##STR1##

SUMM . . . is useful in the prevention, treatment of diseases related to "ischemia-reperfusion" injury such as ischemic heart, brain, neuronal cells and **retina**, and suppression of lipid peroxidation. ##STR2##

SUMM . . . being pursued. The use of those compounds as protectants or curatives for the organs related to "ischemia-reperfusion injury" such as **retina** and skeletal muscles besides heart and brain, is being investigated, too.

SUMM . . . useful in the prevention and treatment of various diseases related to ischemia-reperfusion damage such as protection of heart, neuronal cells, **retina**, brain injury, and organ preservation for storage, or inhibition of lipid peroxidation.

SUMM . . . derivatives. In particular, the present invention provides the use of the benzopyranyl heterocycle derivatives for the protection of heart, brain, **retina** from ischemic injury or protection of organ for storage, and suppression of lipid peroxidation.

DETD . . . is useful in the protection or treatment for organs or diseases related to "ischemia-reperfusion" injury such as brain, neuronal cells, **retina**, or organ besides heart.

IT 135620-04-1 138124-32-0

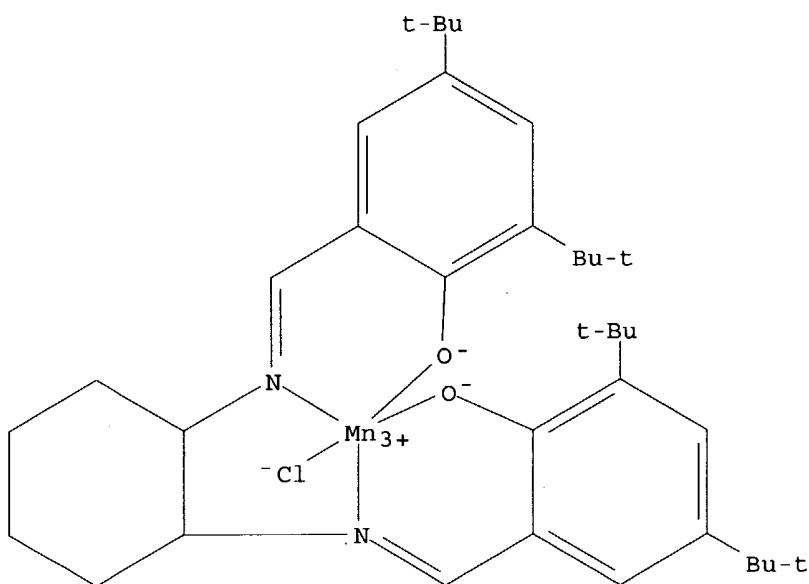
(preparation of nitrobenzopyranylheterocycles for treatment of ischemia-reperfusion injury and as inhibitors of lipid peroxidn.)

IT 135620-04-1 138124-32-0

(preparation of nitrobenzopyranylheterocycles for treatment of ischemia-reperfusion injury and as inhibitors of lipid peroxidn.)

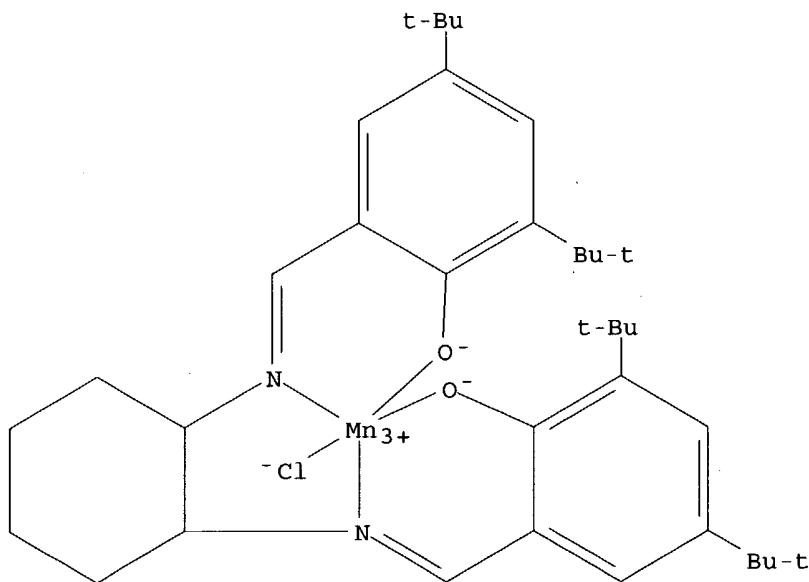
RN 135620-04-1 USPATFULL

CN Manganese, chloro[[2,2'-[(1S,2S)-1,2-cyclohexanediylbis[(nitrilo-κN)methylidyne]]bis[4,6-bis(1,1-dimethylethyl)phenolato-κO]](2-)]-, (SP-5-13)-(9CI) (CA INDEX NAME)



RN 138124-32-0 USPATFULL

CN Manganese, chloro[[2,2'-(1,2-cyclohexanediylbis[(nitrilo-  
κN)methylidene]]bis[4,6-bis(1,1-dimethylethyl)phenolato-  
κO]](2-)]-, [SP-5-13-(1R-trans)]- (9CI) (CA INDEX NAME)



L65 ANSWER 3 OF 3 USPATFULL on STN

AN 2001:10881 USPATFULL

TI Bipyridine manganese complexes

IN Campbell, Ian Baxter, Broom, United Kingdom

Walker, Ann Louise, Wood Green, United Kingdom

Box, Philip Charles, Ware, United Kingdom

Giblin, Gerard Martin Paul, Shefford, United Kingdom

Tranter, George Edward, Kidlington, United Kingdom

PA Eukarion, Inc., Bedford, MA, United States (U.S. corporation)

PI US 6177419 B1 20010123  
 AI US 1999-376044 19990817 (9)  
 PRAI GB 1998-17845 19980817  
 DT Utility  
 FS Granted  
 EXNAM Primary Examiner: Kight, John; Assistant Examiner: Robinson, Binta  
 LREP Hamilton, Brook, Smith & Reynolds, P.C.  
 CLMN Number of Claims: 22  
 ECL Exemplary Claim: 1  
 DRWN No Drawings  
 LN.CNT 2531  
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.  
 AB Compounds and methods of preparing compounds represented by structural formula (I): ##STR1##

wherein X represents any suitable counter-anion;

R.sup.1 and R.sup.2 independently represent hydrogen, C.sub.1-6 alkoxy or nitro;

R.sup.3, R.sup.4, R.sup.5 and R.sup.6 each independently represents hydrogen, hydroxy, halo, C.sub.1-6 alkyl,

C.sub.2-6 alkenyl or C.sub.1-6 alkoxy; and

R.sup.7, R.sup.8, R.sup.9 and R.sup.10 each independently represents hydrogen, hydroxy, halo, C.sub.1-6 alkyl, C.sub.2-6 alkenyl or C.sub.1-6 alkoxy.

Compounds represented by structural formula (I) are useful in treating or preventing free radical-associated diseases or conditions in mammals.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

SUMM . . . emphysema, chronic bronchitis, AIDS, inflammatory bowel disease, pancreatitis, transplantation rejection, atherosclerosis, hypertension, congestive heart failure, myocardial ischemic disorders, angioplasty, endocarditis, **retinopathy** of prematurity, cataract formation, uveitis, rheumatoid arthritis and osteoarthritis.

IT Autoimmune disease

IT Blood vessel, disease

IT Brain, disease

IT Eczema

IT Emphysema

IT **Eye, disease**

IT Oxidative stress, biological

IT Skin, disease

(preparation of manganese bis(hydroxyphenyl)bipyridine complexes for treatment of)

IT 259208-25-8P 259208-26-9P 259208-27-0P

259208-28-1P 259208-29-2P 259208-30-5P

259208-31-6P 259208-32-7P 259208-33-8P

259208-34-9P 259208-35-0P 259208-36-1P

259208-37-2P 259208-38-3P 259208-39-4P

259208-40-7P 259208-41-8P 259208-42-9P

259208-43-0P 259208-44-1P 259208-45-2P

259208-46-3P 259208-47-4P 259208-48-5P

259208-49-6P 259208-50-9P 259208-51-0P

259208-52-1P 259208-53-2P 259208-54-3P

259208-55-4P 259208-56-5P 259208-57-6P

259208-58-7P 259208-59-8P 259208-60-1P

259208-61-2P 259208-62-3P 259208-63-4P

259208-64-5P 259208-65-6P 259208-66-7P

(preparation and conversion to chloro complex and use in treatment or

prevention of free radical-associated diseases or conditions in mammals)

IT 259208-67-8P 259208-68-9P 259208-69-0P

259208-70-3P 259208-71-4P 259208-72-5P

259208-73-6P 259208-74-7P 259208-75-8P

259208-76-9P 259208-77-0P 259208-78-1P

259208-79-2P 259208-80-5P 259208-81-6P

259208-82-7P 259208-83-8P 259208-84-9P

259208-85-0P 259208-86-1P 259208-87-2P

259208-88-3P 259208-89-4P 259208-90-7P

259208-91-8P 259208-92-9P 259208-93-0P

259208-94-1P 259208-95-2P 259208-96-3P

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259209-00-2P 259209-01-3P 259209-02-4P

259209-03-5P 259209-04-6P 259209-05-7P

259209-06-8P 259209-07-9P 259209-08-0P

(preparation and use in treatment or prevention of free radical-associated diseases or conditions in mammals)

IT 259208-25-8P 259208-26-9P 259208-27-0P

259208-28-1P 259208-29-2P 259208-30-5P

259208-31-6P 259208-32-7P 259208-33-8P

259208-34-9P 259208-35-0P 259208-36-1P

259208-37-2P 259208-38-3P 259208-39-4P

259208-40-7P 259208-41-8P 259208-42-9P

259208-43-0P 259208-44-1P 259208-45-2P

259208-46-3P 259208-47-4P 259208-48-5P

259208-49-6P 259208-50-9P 259208-51-0P

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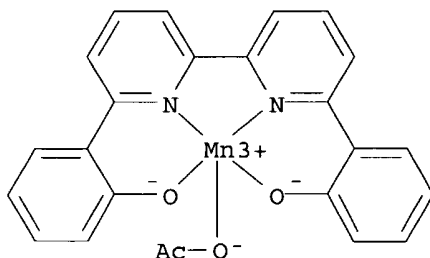
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259208-64-5P 259208-65-6P 259208-66-7P

(preparation and conversion to chloro complex and use in treatment or prevention of free radical-associated diseases or conditions in mammals)

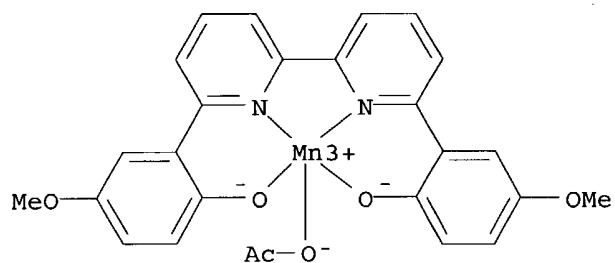
RN 259208-25-8 USPATFULL

CN Manganese, (acetato-κO) [[2,2'-([2,2'-bipyridine]-6,6'-diyl-κN1,κN1')]bis[phenolato-κO]](2-)]- (9CI) (CA INDEX NAME)



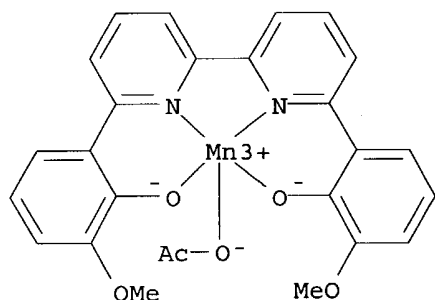
RN 259208-26-9 USPATFULL

CN Manganese, (acetato-κO) [[2,2'-([2,2'-bipyridine]-6,6'-diyl-κN1,κN1')]bis[4-methoxyphenolato-κO]](2-)]- (9CI) (CA INDEX NAME)



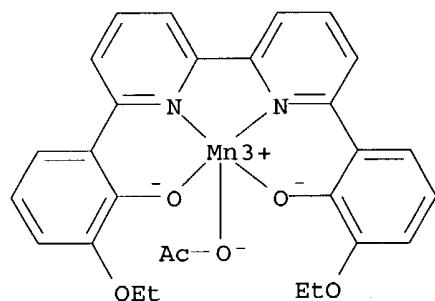
RN 259208-27-0 USPATFULL

CN Manganese, (acetato-κO) [[2,2'-(2,2'-bipyridine)-6,6'-diyl-κN1,κN1']bis[6-methoxyphenolato-κO]](2-)]- (9CI) (CA INDEX NAME)



RN 259208-28-1 USPATFULL

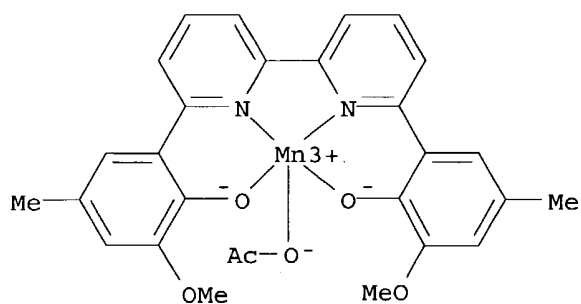
CN Manganese, (acetato-κO) [[2,2'-(2,2'-bipyridine)-6,6'-diyl-κN1,κN1']bis[6-ethoxyphenolato-κO]](2-)]- (9CI) (CA INDEX NAME)



RN 259208-29-2 USPATFULL

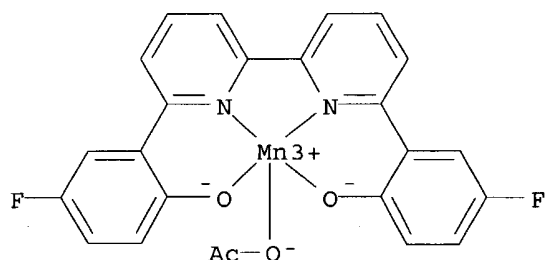
CN Manganese, (acetato-κO) [[2,2'-(2,2'-bipyridine)-6,6'-diyl-κN1,κN1']bis[6-methoxy-4-methylphenolato-κO]](2-)]- (9CI) (CA INDEX NAME)





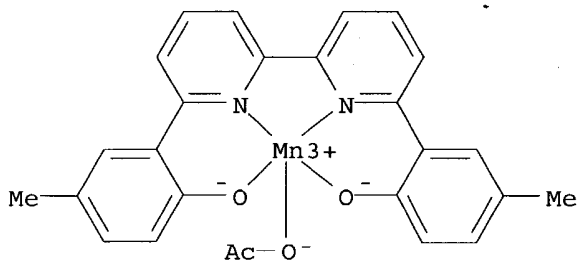
RN 259208-30-5 USPATFULL

CN Manganese, (acetato-κO) [[2,2'-([2,2'-bipyridine]-6,6'-diyl-κN1,κN1')bis[4-fluorophenolato-κO]](2-)]- (9CI) (CA INDEX NAME)



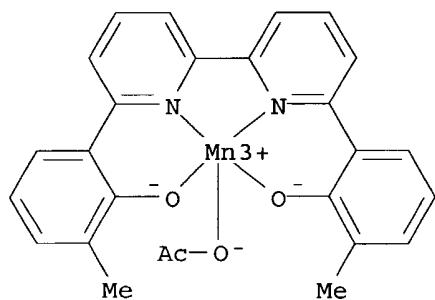
RN 259208-31-6 USPATFULL

CN Manganese, (acetato-κO) [[2,2'-([2,2'-bipyridine]-6,6'-diyl-κN1,κN1')bis[4-methylphenolato-κO]](2-)]- (9CI) (CA INDEX NAME)

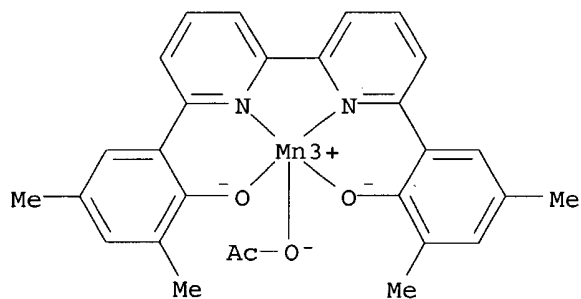


RN 259208-32-7 USPATFULL

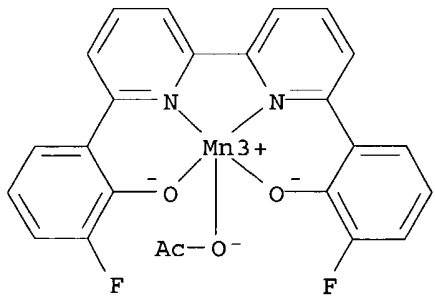
CN Manganese, (acetato-κO) [[2,2'-([2,2'-bipyridine]-6,6'-diyl-κN1,κN1')bis[6-methylphenolato-κO]](2-)]- (9CI) (CA INDEX NAME)



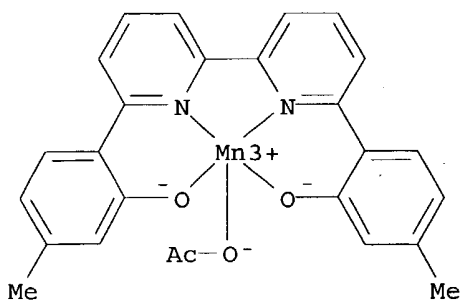
RN 259208-33-8 USPATFULL  
 CN Manganese, (acetato-κO) [[2,2'-([2,2'-bipyridine]-6,6'-diyl-κN1,κN1')bis[4,6-dimethylphenolato-κO]](2-)]- (9CI)  
 (CA INDEX NAME)



RN 259208-34-9 USPATFULL  
 CN Manganese, (acetato-κO) [[2,2'-([2,2'-bipyridine]-6,6'-diyl-κN1,κN1')bis[6-fluorophenolato-κO]](2-)]- (9CI) (CA  
 INDEX NAME)

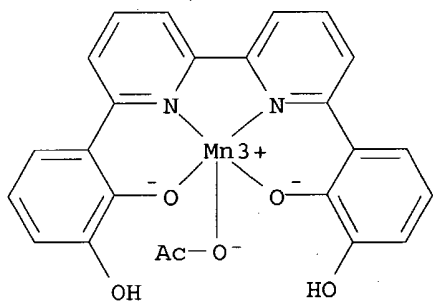


RN 259208-35-0 USPATFULL  
 CN Manganese, (acetato-κO) [[2,2'-([2,2'-bipyridine]-6,6'-diyl-κN1,κN1')bis[5-methylphenolato-κO]](2-)]- (9CI) (CA  
 INDEX NAME)



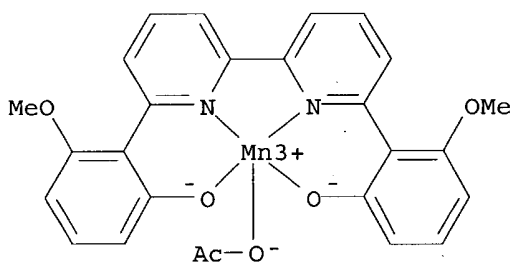
RN 259208-36-1 USPATFULL

CN Manganese, (acetato- $\kappa$ O) [[3,3'-([2,2'-bipyridine]-6,6'-diyl- $\kappa$ N1, $\kappa$ N1')]bis[1,2-benzenediolato- $\kappa$ O2]](2-)]- (9CI) (CA INDEX NAME)



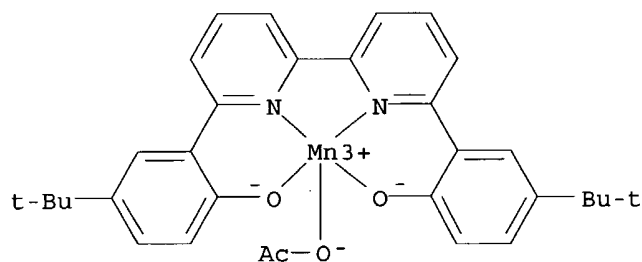
RN 259208-37-2 USPATFULL

CN Manganese, (acetato- $\kappa$ O) [[2,2'-([2,2'-bipyridine]-6,6'-diyl- $\kappa$ N1, $\kappa$ N1')]bis[3-methoxyphenolato- $\kappa$ O]](2-)]- (9CI) (CA INDEX NAME)



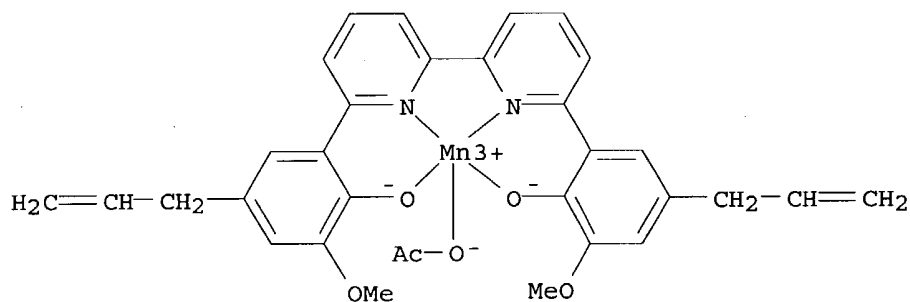
RN 259208-38-3 USPATFULL

CN Manganese, (acetato- $\kappa$ O) [[2,2'-([2,2'-bipyridine]-6,6'-diyl- $\kappa$ N1, $\kappa$ N1')]bis[4-(1,1-dimethylethyl)phenolato- $\kappa$ O]](2-)]- (9CI) (CA INDEX NAME)



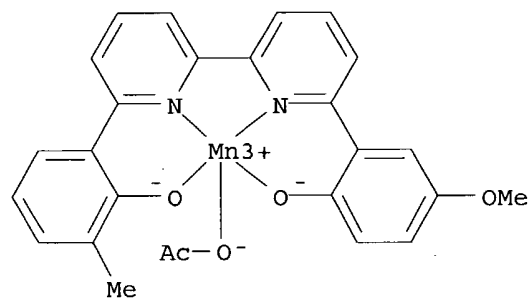
RN 259208-39-4 USPATFULL

CN Manganese, (acetato- $\kappa$ O) [[2,2'-([2,2'-bipyridine]-6,6'-diyl- $\kappa$ N1, $\kappa$ N1')]bis[6-methoxy-4-(2-propenyl)phenolato- $\kappa$ O]](2-)]- (9CI) (CA INDEX NAME)



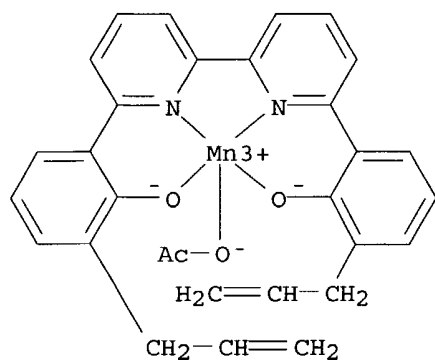
RN 259208-40-7 USPATFULL

CN Manganese, (acetato- $\kappa$ O) [2-[6'-[2-(hydroxy- $\kappa$ O)-3-methylphenyl][2,2'-bipyridin]-6-yl- $\kappa$ N1, $\kappa$ N1']-4-methoxyphenolato(2-)- $\kappa$ O]- (9CI) (CA INDEX NAME)



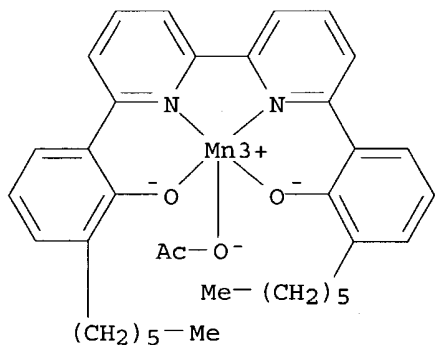
RN 259208-41-8 USPATFULL

CN Manganese, (acetato- $\kappa$ O) [[2,2'-([2,2'-bipyridine]-6,6'-diyl- $\kappa$ N1, $\kappa$ N1')]bis[6-(2-propenyl)phenolato- $\kappa$ O]](2-)]- (9CI) (CA INDEX NAME)



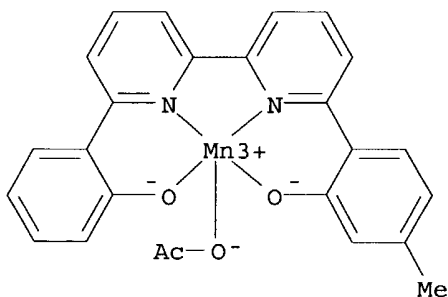
RN 259208-42-9 USPATFULL

CN Manganese, (acetato-κO) [[2,2'-(2,2'-bipyridine)-6,6'-diyl-κN1,κN1']bis[6-hexylphenolato-κO]](2-)]- (9CI) (CA INDEX NAME)



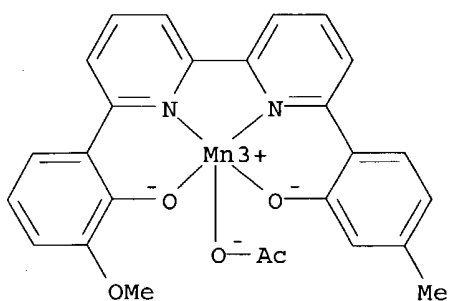
RN 259208-43-0 USPATFULL

CN Manganese, (acetato-κO) [2-[6'-[2-(hydroxy-κO)phenyl][2,2'-bipyridin]-6-yl-κN1,κN1']-5-methylphenolato(2-)-κO]- (9CI) (CA INDEX NAME)



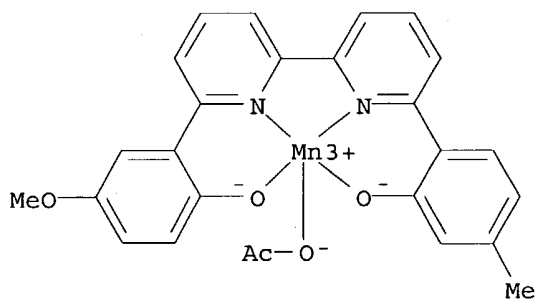
RN 259208-44-1 USPATFULL

CN Manganese, (acetato-κO) [2-[6'-[2-(hydroxy-κO)-3-methoxyphenyl][2,2'-bipyridin]-6-yl-κN1,κN1']-5-methylphenolato(2-)-κO]- (9CI) (CA INDEX NAME)



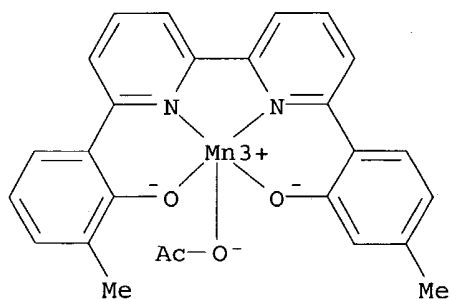
RN 259208-45-2 USPATFULL

CN Manganese, (acetato- $\kappa$ O) [2-[6'-[2-(hydroxy- $\kappa$ O)-4-methylphenyl][2,2'-bipyridin]-6-yl- $\kappa$ N1, $\kappa$ N1']-4-methoxyphenolato(2-)- $\kappa$ O]- (9CI) (CA INDEX NAME)



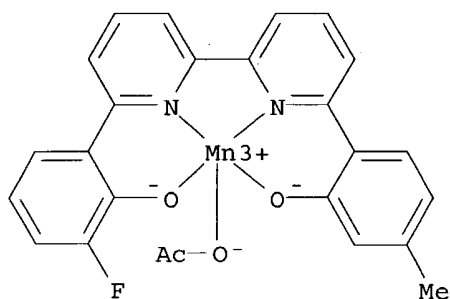
RN 259208-46-3 USPATFULL

CN Manganese, (acetato- $\kappa$ O) [2-[6'-[2-(hydroxy- $\kappa$ O)-3-methylphenyl][2,2'-bipyridin]-6-yl- $\kappa$ N1, $\kappa$ N1']-5-methylphenolato(2-)- $\kappa$ O]- (9CI) (CA INDEX NAME)



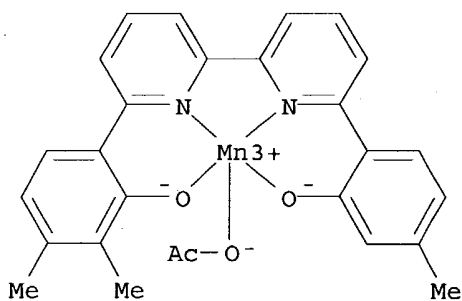
RN 259208-47-4 USPATFULL

CN Manganese, (acetato- $\kappa$ O) [2-[6'-[3-fluoro-2-(hydroxy- $\kappa$ O)phenyl][2,2'-bipyridin]-6-yl- $\kappa$ N1, $\kappa$ N1']-5-methylphenolato(2-)- $\kappa$ O]- (9CI) (CA INDEX NAME)



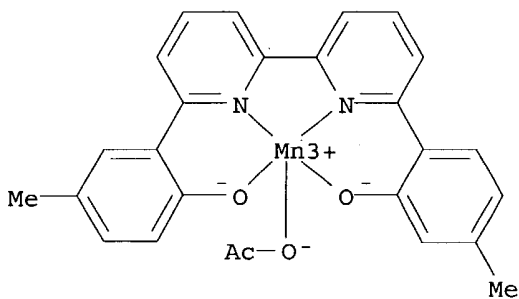
RN 259208-48-5 USPATFULL

CN Manganese, (acetato-κO) [6-[6'-[2-(hydroxy-κO)-4-methylphenyl] [2,2'-bipyridin]-6-yl-κN1,κN1']-2,3-dimethylphenolato(2-)-κO]- (9CI) (CA INDEX NAME)



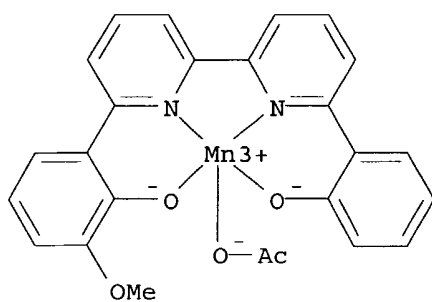
RN 259208-49-6 USPATFULL

CN Manganese, (acetato-κO) [2-[6'-[2-(hydroxy-κO)-4-methylphenyl] [2,2'-bipyridin]-6-yl-κN1,κN1']-4-methylphenolato(2-)-κO]- (9CI) (CA INDEX NAME)



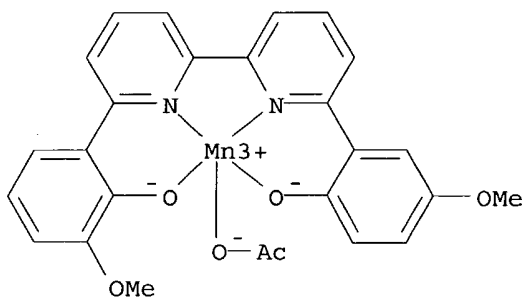
RN 259208-50-9 USPATFULL

CN Manganese, (acetato-κO) [2-[6'-[2-(hydroxy-κO)phenyl] [2,2'-bipyridin]-6-yl-κN1,κN1']-6-methoxyphenolato(2-)-κO]- (9CI) (CA INDEX NAME)



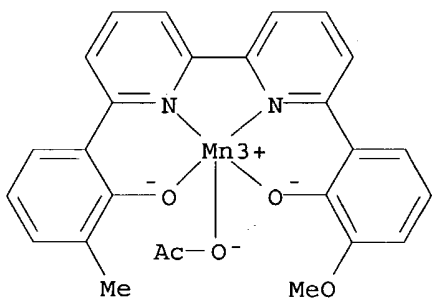
RN 259208-51-0 USPATFULL

CN Manganese, (acetato-κO) [2-[6'-[2-(hydroxy-κO)-3-methoxyphenyl] [2,2'-bipyridin]-6-yl-κN1,κN1']-4-methoxyphenolato(2-)-κO]- (9CI) (CA INDEX NAME)



RN 259208-52-1 USPATFULL

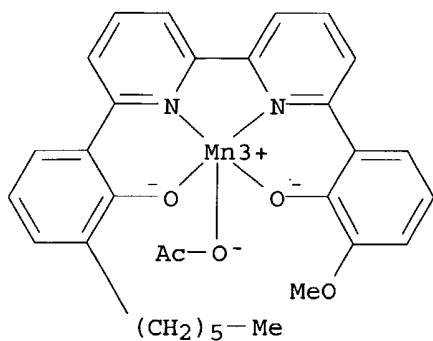
CN Manganese, (acetato-κO) [2-[6'-[2-(hydroxy-κO)-3-methoxyphenyl] [2,2'-bipyridin]-6-yl-κN1,κN1']-6-methylphenolato(2-)-κO]- (9CI) (CA INDEX NAME)



RN 259208-53-2 USPATFULL

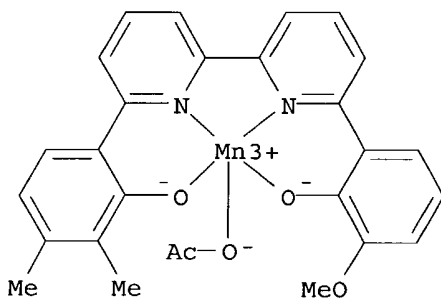
CN Manganese, (acetato-κO) [2-[6'-[3-hexyl-2-(hydroxy-κO)phenyl] [2,2'-bipyridin]-6-yl-κN1,κN1']-6-methoxyphenolato(2-)-κO]- (9CI) (CA INDEX NAME)





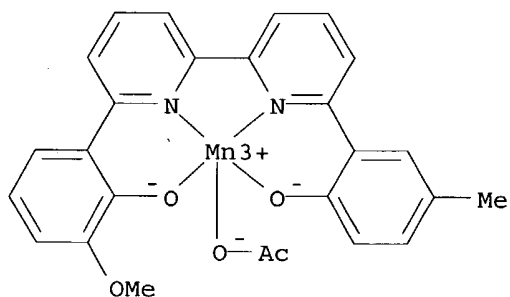
RN 259208-54-3 USPATFULL

CN Manganese, (acetato-κO) [6-[6'-[2-(hydroxy-κO)-3-methoxyphenyl][2,2'-bipyridin]-6-yl-κN1,κN1']-2,3-dimethylphenolato(2-)-κO]- (9CI) (CA INDEX NAME)



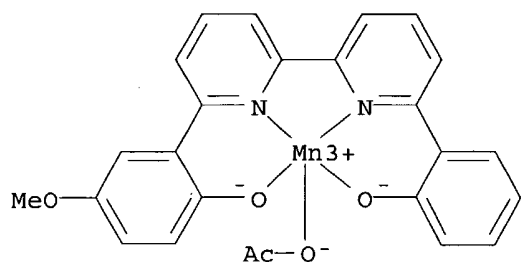
RN 259208-55-4 USPATFULL

CN Manganese, (acetato-κO) [2-[6'-[2-(hydroxy-κO)-3-methoxyphenyl][2,2'-bipyridin]-6-yl-κN1,κN1']-4-methylphenolato(2-)-κO]- (9CI) (CA INDEX NAME)

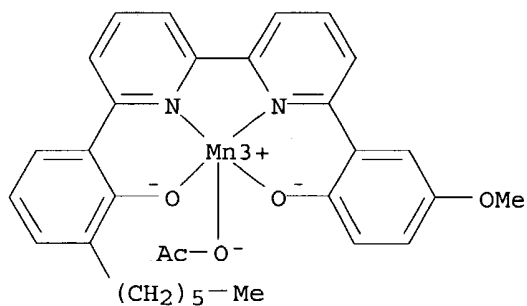


RN 259208-56-5 USPATFULL

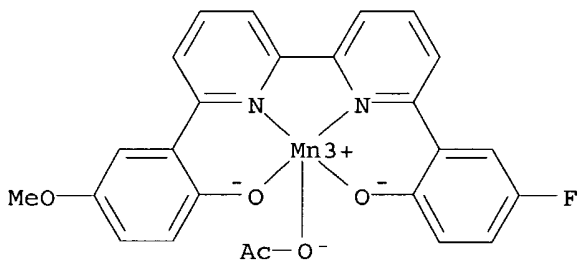
CN Manganese, (acetato-κO) [2-[6'-[2-(hydroxy-κO)phenyl][2,2'-bipyridin]-6-yl-κN1,κN1']-4-methoxyphenolato(2-)-κO]- (9CI) (CA INDEX NAME)



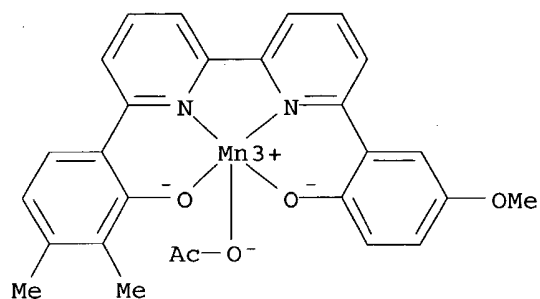
RN 259208-57-6 USPATFULL  
 CN Manganese, (acetato- $\kappa$ O) [2-[6'-[3-hexyl-2-(hydroxy- $\kappa$ O)phenyl] [2,2'-bipyridin]-6-yl- $\kappa$ N1, $\kappa$ N1']-4-methoxyphenolato(2-)- $\kappa$ O] - (9CI) (CA INDEX NAME)



RN 259208-58-7 USPATFULL  
 CN Manganese, (acetato- $\kappa$ O) [4-fluoro-2-[6'-[2-(hydroxy- $\kappa$ O)-5-methoxyphenyl] [2,2'-bipyridin]-6-yl- $\kappa$ N1, $\kappa$ N1']phenolato(2-)- $\kappa$ O] - (9CI) (CA INDEX NAME)

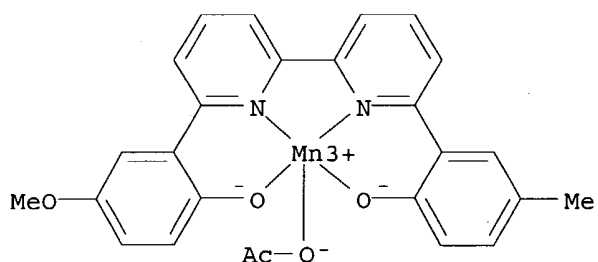


RN 259208-59-8 USPATFULL  
 CN Manganese, (acetato- $\kappa$ O) [6-[6'-[2-(hydroxy- $\kappa$ O)-5-methoxyphenyl] [2,2'-bipyridin]-6-yl- $\kappa$ N1, $\kappa$ N1']-2,3-dimethylphenolato(2-)- $\kappa$ O] - (9CI) (CA INDEX NAME)



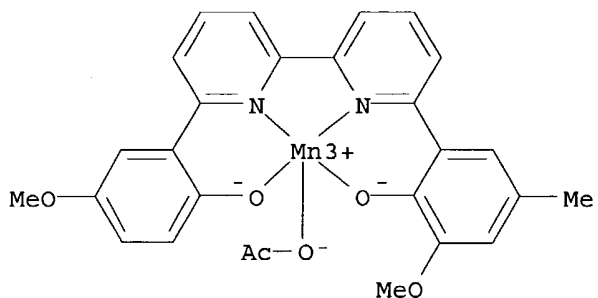
RN 259208-60-1 USPATFULL

CN Manganese, (acetato-κO) [2-[6'-[2-(hydroxy-κO)-5-methoxyphenyl] [2,2'-bipyridin]-6-yl-κN1,κN1']-4-methylphenolato(2-)-κO]- (9CI) (CA INDEX NAME)



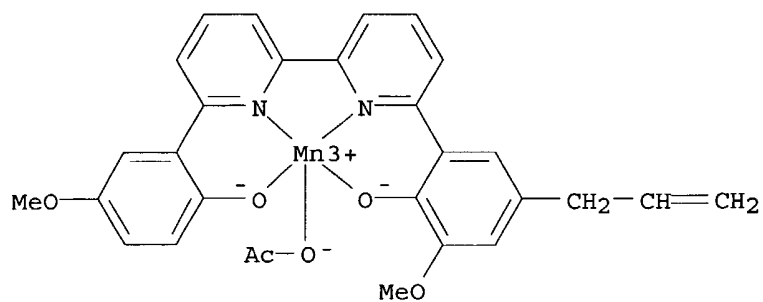
RN 259208-61-2 USPATFULL

CN Manganese, (acetato-κO) [2-[6'-[2-(hydroxy-κO)-5-methoxyphenyl] [2,2'-bipyridin]-6-yl-κN1,κN1']-6-methoxy-4-methylphenolato(2-)-κO]- (9CI) (CA INDEX NAME)



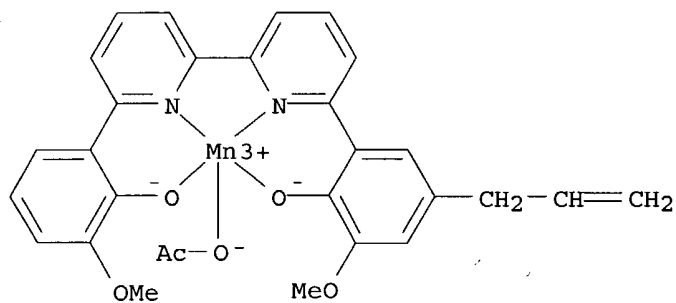
RN 259208-62-3 USPATFULL

CN Manganese, (acetato-κO) [2-[6'-[2-(hydroxy-κO)-5-methoxyphenyl] [2,2'-bipyridin]-6-yl-κN1,κN1']-6-methoxy-4-(2-propenyl)phenolato(2-)-κO]- (9CI) (CA INDEX NAME)



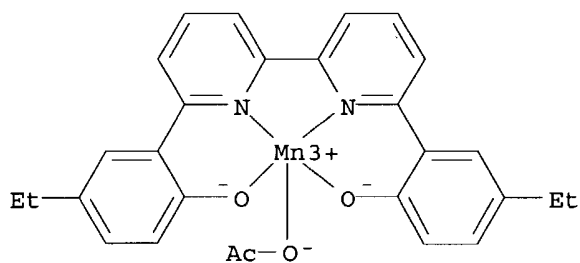
RN 259208-63-4 USPATFULL

CN Manganese, (acetato- $\kappa$ O) [2-[6'-[2-(hydroxy- $\kappa$ O)-3-methoxyphenyl][2,2'-bipyridin]-6-yl- $\kappa$ N1, $\kappa$ N1']-6-methoxy-4-(2-propenyl)phenolato(2-)- $\kappa$ O]- (9CI) (CA INDEX NAME)



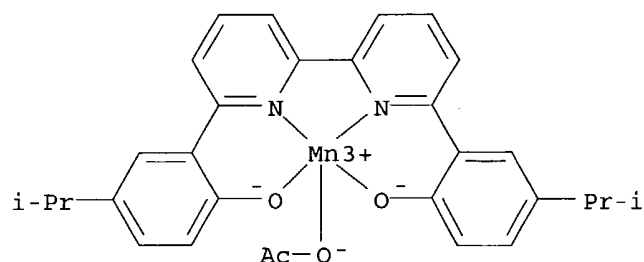
RN 259208-64-5 USPATFULL

CN Manganese, (acetato- $\kappa$ O) [[2,2'-([2,2'-bipyridine]-6,6'-diyl- $\kappa$ N1, $\kappa$ N1')]bis[4-ethylphenolato- $\kappa$ O]](2-)]- (9CI) (CA INDEX NAME)



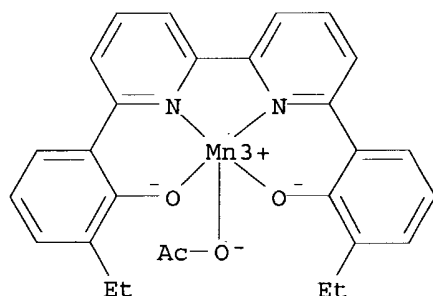
RN 259208-65-6 USPATFULL

CN Manganese, (acetato- $\kappa$ O) [[2,2'-([2,2'-bipyridine]-6,6'-diyl- $\kappa$ N1, $\kappa$ N1')]bis[4-(1-methylethyl)phenolato- $\kappa$ O]](2-)]- (9CI) (CA INDEX NAME)



RN 259208-66-7 USPATFULL

CN Manganese, (acetato-κO) [[2,2'-([2,2'-bipyridine]-6,6'-diyl-κN1,κN1')]bis[6-ethylphenolato-κO]](2-)]- (9CI) (CA INDEX NAME)

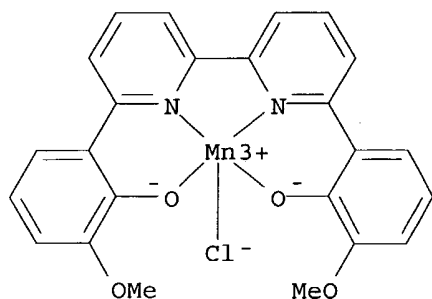


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 259209-00-2P 259209-01-3P 259209-02-4P  
 259209-03-5P 259209-04-6P 259209-05-7P  
 259209-06-8P 259209-07-9P 259209-08-0P

(preparation and use in treatment or prevention of free radical-associated diseases or conditions in mammals)

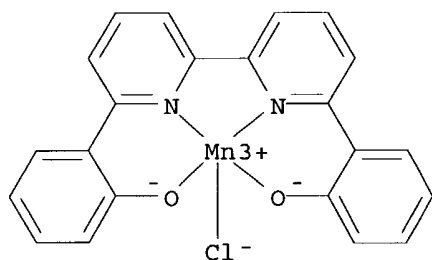
RN 259208-67-8 USPATFULL

CN Manganese, [[2,2'-([2,2'-bipyridine]-6,6'-diyl-κN1,κN1')]bis[6-methoxyphenolato-κO]](2-)]chloro- (9CI) (CA INDEX NAME)



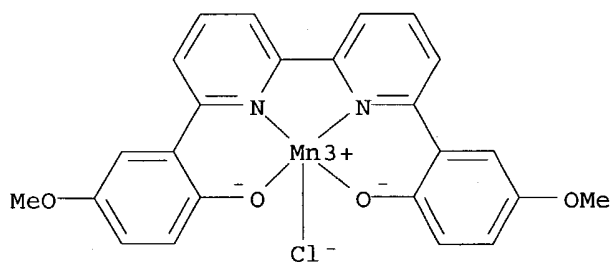
RN 259208-68-9 USPATFULL

CN Manganese, [[2,2'-([2,2'-bipyridine]-6,6'-diyl- $\kappa$ N1, $\kappa$ N1')bis[phenolato- $\kappa$ O]](2-)]chloro- (9CI) (CA INDEX NAME)



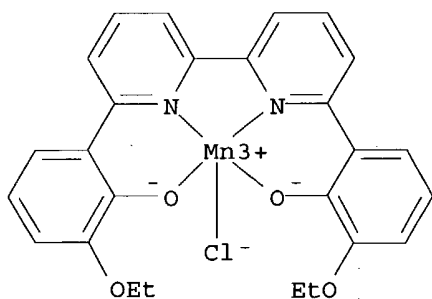
RN 259208-69-0 USPATFULL

CN Manganese, [[2,2'-([2,2'-bipyridine]-6,6'-diyl- $\kappa$ N1, $\kappa$ N1')bis[4-methoxyphenolato- $\kappa$ O]](2-)]chloro- (9CI) (CA INDEX NAME)



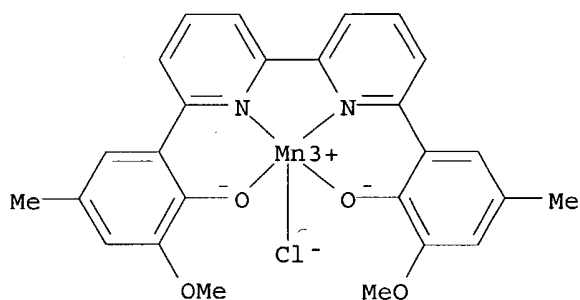
RN 259208-70-3 USPATFULL

CN Manganese, [[2,2'-([2,2'-bipyridine]-6,6'-diyl- $\kappa$ N1, $\kappa$ N1')bis[6-ethoxyphenolato- $\kappa$ O]](2-)]chloro- (9CI) (CA INDEX NAME)



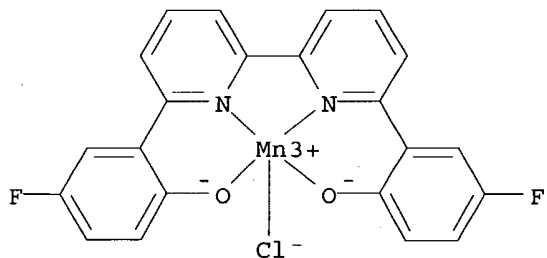
RN 259208-71-4 USPATFULL

CN Manganese, [[2,2'-([2,2'-bipyridine]-6,6'-diyl-κN1,κN1'))bis[6-methoxy-4-methylphenolato-κO]](2-)]chloro- (9CI) (CA INDEX NAME)



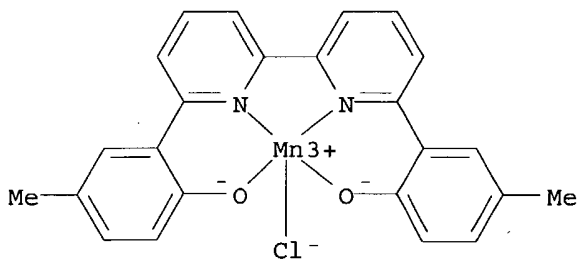
RN 259208-72-5 USPATFULL

CN Manganese, [[2,2'-([2,2'-bipyridine]-6,6'-diyl-κN1,κN1'))bis[4-fluorophenolato-κO]](2-)]chloro- (9CI) (CA INDEX NAME)

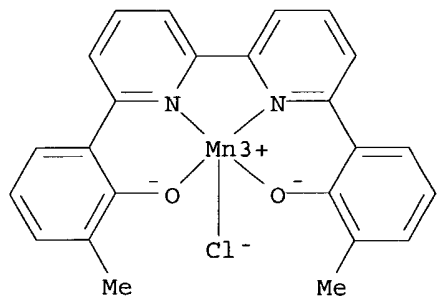


RN 259208-73-6 USPATFULL

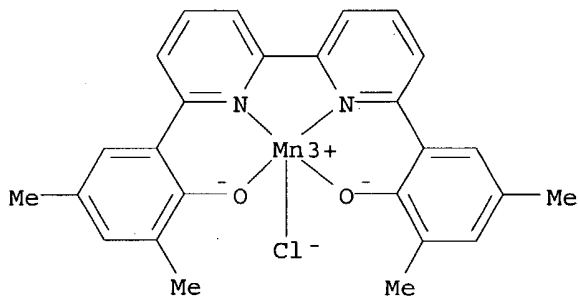
CN Manganese, [[2,2'-([2,2'-bipyridine]-6,6'-diyl-κN1,κN1'))bis[4-methylphenolato-κO]](2-)]chloro- (9CI) (CA INDEX NAME)



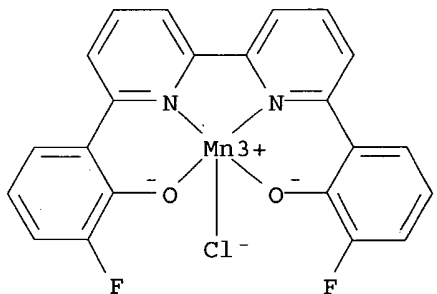
RN 259208-74-7 USPATFULL

CN Manganese, [[2,2'-([2,2'-bipyridine]-6,6'-diyl- $\kappa$ N1, $\kappa$ N1'))bis[6-methylphenolato- $\kappa$ O]](2-)]chloro- (9CI) (CA INDEX NAME)

RN 259208-75-8 USPATFULL

CN Manganese, [[2,2'-([2,2'-bipyridine]-6,6'-diyl- $\kappa$ N1, $\kappa$ N1'))bis[4,6-dimethylphenolato- $\kappa$ O]](2-)]chloro- (9CI) (CA INDEX NAME)

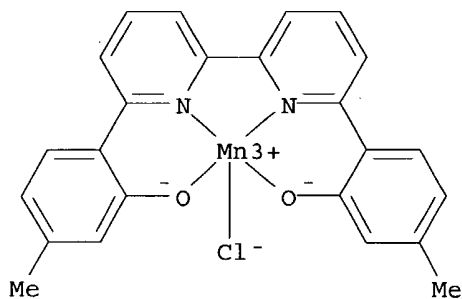
RN 259208-76-9 USPATFULL

CN Manganese, [[2,2'-([2,2'-bipyridine]-6,6'-diyl- $\kappa$ N1, $\kappa$ N1'))bis[6-fluorophenolato- $\kappa$ O]](2-)]chloro- (9CI) (CA INDEX NAME)

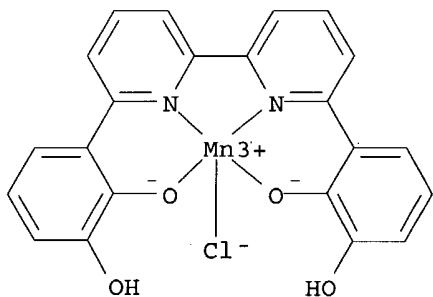
RN 259208-77-0 USPATFULL

CN Manganese, [[2,2'-([2,2'-bipyridine]-6,6'-diyl- $\kappa$ N1, $\kappa$ N1'))bis[5-methylphenolato- $\kappa$ O]](2-)]chloro- (9CI) (CA INDEX NAME)

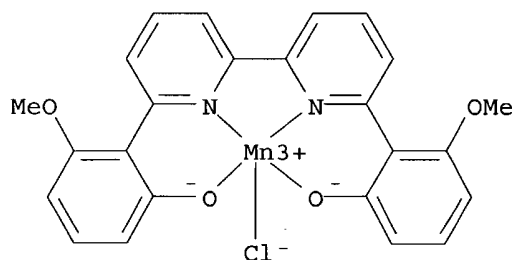




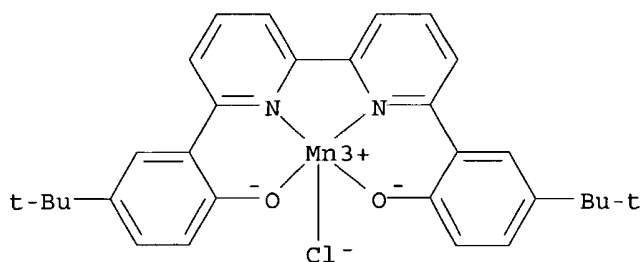
RN 259208-78-1 USPATFULL  
 CN Manganese, [[3,3'-([2,2'-bipyridine]-6,6'-diyl- $\kappa$ N1, $\kappa$ N1')]bis[1,2-benzenediolato- $\kappa$ O2]](2-)]chloro- (9CI) (CA INDEX NAME)



RN 259208-79-2 USPATFULL  
 CN Manganese, [[2,2'-([2,2'-bipyridine]-6,6'-diyl- $\kappa$ N1, $\kappa$ N1')]bis[3-methoxyphenolato- $\kappa$ O]](2-)]chloro- (9CI) (CA INDEX NAME)

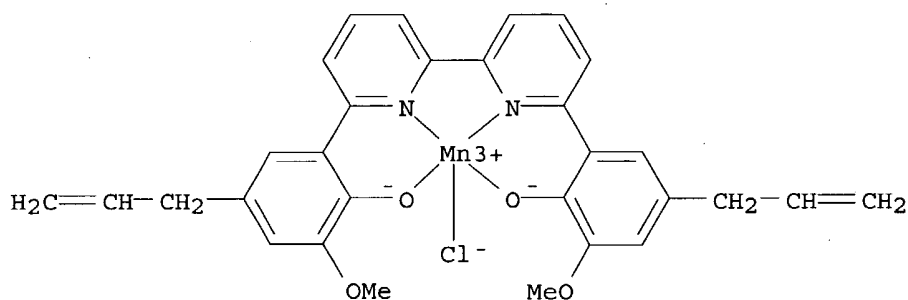


RN 259208-80-5 USPATFULL  
 CN Manganese, [[2,2'-([2,2'-bipyridine]-6,6'-diyl- $\kappa$ N1, $\kappa$ N1')]bis[4-(1,1-dimethylethyl)phenolato- $\kappa$ O]](2-)]chloro- (9CI) (CA INDEX NAME)



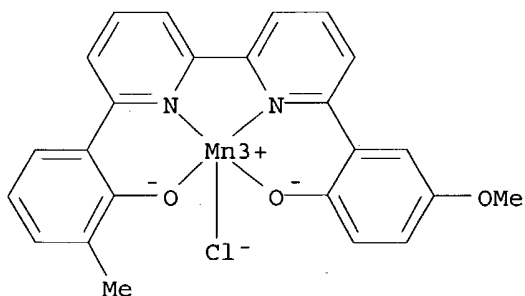
RN 259208-81-6 USPATFULL

CN Manganese, [[2,2'-([2,2'-bipyridine]-6,6'-diyl-κN1,κN1')bis[6-methoxy-4-(2-propenyl)phenolato-κO]](2-)]chloro- (9CI) (CA INDEX NAME)



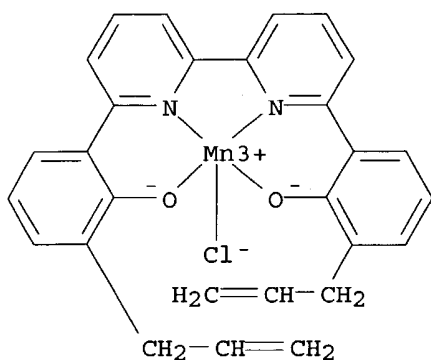
RN 259208-82-7 USPATFULL

CN Manganese, chloro[2-[6'-[2-(hydroxy-κO)-3-methylphenyl][2,2'-bipyridin]-6-yl-κN1,κN1']-4-methoxyphenolato(2-)-κO]- (9CI) (CA INDEX NAME)



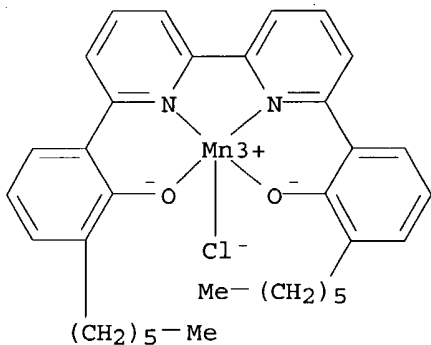
RN 259208-83-8 USPATFULL

CN Manganese, [[2,2'-([2,2'-bipyridine]-6,6'-diyl-κN1,κN1')bis[6-(2-propenyl)phenolato-κO]](2-)]chloro- (9CI) (CA INDEX NAME)



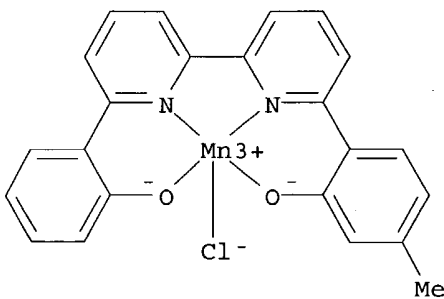
RN 259208-84-9 USPATFULL

CN Manganese, [[2,2'-([2,2'-bipyridine]-6,6'-diyl-κN1,κN1')]bis[6-hexylphenolato-κO]](2-)]chloro- (9CI) (CA INDEX NAME)



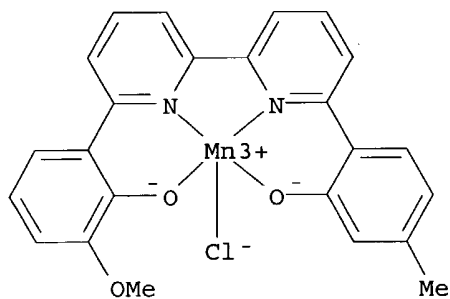
RN 259208-85-0 USPATFULL

CN Manganese, chloro[2-[6'-[2-(hydroxy-κO)phenyl][2,2'-bipyridin]-6-yl-κN1,κN1']-5-methylphenolato(2-)-κO]- (9CI) (CA INDEX NAME)



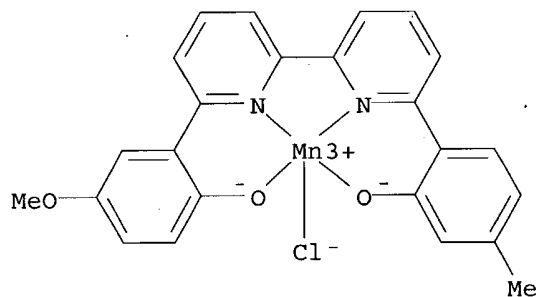
RN 259208-86-1 USPATFULL

CN Manganese, chloro[2-[6'-[2-(hydroxy-κO)-3-methoxyphenyl][2,2'-bipyridin]-6-yl-κN1,κN1']-5-methylphenolato(2-)-κO]- (9CI) (CA INDEX NAME)



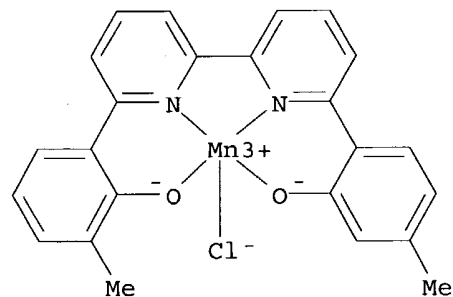
RN 259208-87-2 USPATFULL

CN Manganese, chloro[2-[6'-[2-(hydroxy-κO)-4-methylphenyl][2,2'-bipyridin]-6-yl-κN1,κN1']-4-methoxyphenolato(2-)-κO]-(9CI) (CA INDEX NAME)



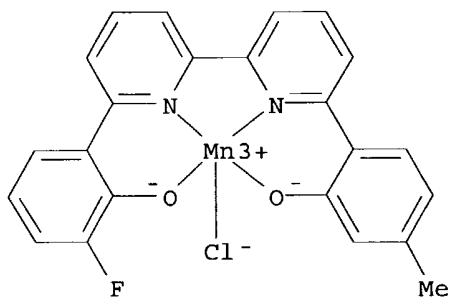
RN 259208-88-3 USPATFULL

CN Manganese, chloro[2-[6'-[2-(hydroxy-κO)-3-methylphenyl][2,2'-bipyridin]-6-yl-κN1,κN1']-5-methylphenolato(2-)-κO]-(9CI) (CA INDEX NAME)



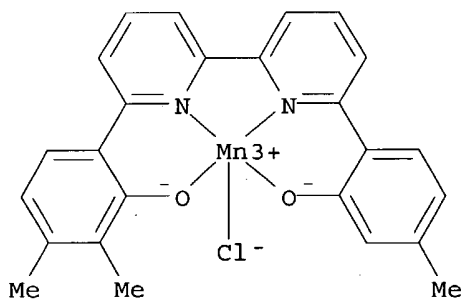
RN 259208-89-4 USPATFULL

CN Manganese, chloro[2-[6'-[3-fluoro-2-(hydroxy-κO)phenyl][2,2'-bipyridin]-6-yl-κN1,κN1']-5-methylphenolato(2-)-κO]-(9CI) (CA INDEX NAME)



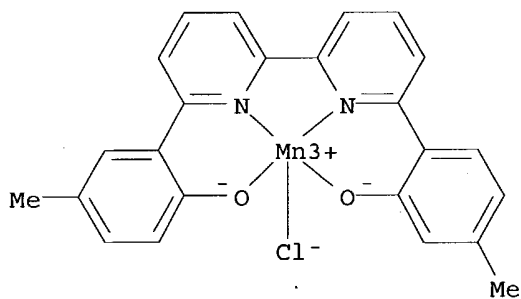
RN 259208-90-7 USPATFULL

CN Manganese, chloro[6-[6'-[2-(hydroxy-κO)-4-methylphenyl][2,2'-bipyridin]-6-yl-κN1,κN1']-2,3-dimethylphenolato(2-)-κO]-(9CI) (CA INDEX NAME)



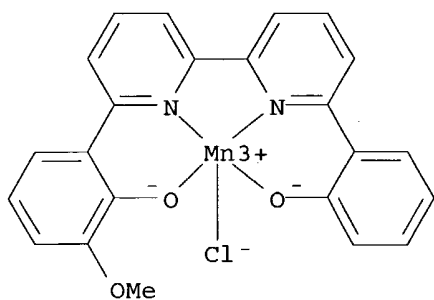
RN 259208-91-8 USPATFULL

CN Manganese, chloro[2-[6'-[2-(hydroxy-κO)-4-methylphenyl][2,2'-bipyridin]-6-yl-κN1,κN1']-4-methylphenolato(2-)-κO]-(9CI) (CA INDEX NAME)



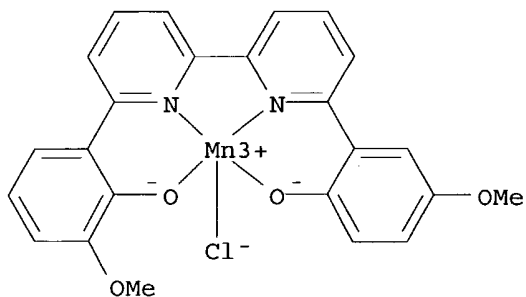
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CN Manganese, chloro[2-[6'-[2-(hydroxy-κO)phenyl][2,2'-bipyridin]-6-yl-κN1,κN1']-6-methoxyphenolato(2-)-κO]-(9CI) (CA INDEX NAME)



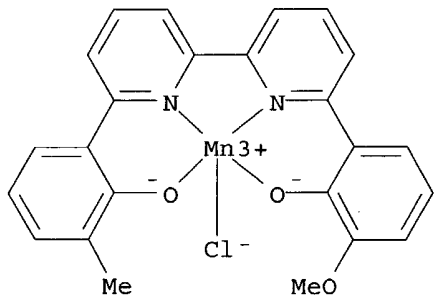
RN 259208-93-0 USPATFULL

CN Manganese, chloro[2-[6'-[2-(hydroxy-κO)-3-methoxyphenyl][2,2'-bipyridin]-6-yl-κN1,κN1']-4-methoxyphenolato(2-)-κO]-(9CI) (CA INDEX NAME)



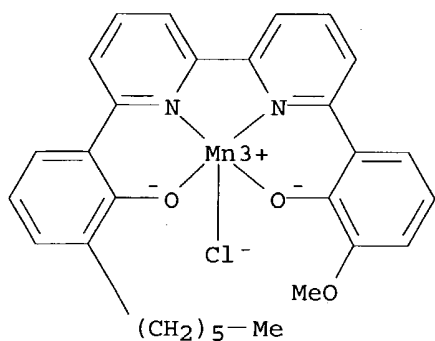
RN 259208-94-1 USPATFULL

CN Manganese, chloro[2-[6'-[2-(hydroxy-κO)-3-methoxyphenyl][2,2'-bipyridin]-6-yl-κN1,κN1']-6-methylphenolato(2-)-κO]-(9CI) (CA INDEX NAME)



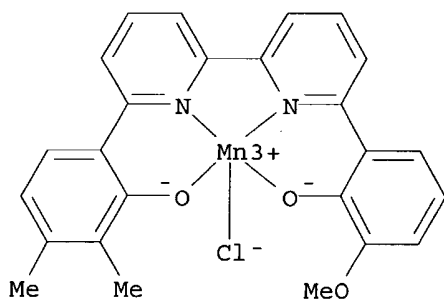
RN 259208-95-2 USPATFULL

CN Manganese, chloro[2-hexyl-6-[6'-[2-(hydroxy-κO)-3-methoxyphenyl][2,2'-bipyridin]-6-yl-κN1,κN1']phenolato(2-)-κO]-(9CI) (CA INDEX NAME)



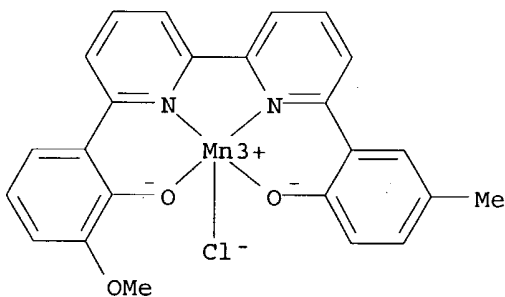
RN 259208-96-3 USPATFULL

CN Manganese, chloro[6-[6'-[2-(hydroxy-κO)-3-methoxyphenyl][2,2'-bipyridin]-6-yl-κN1,κN1']-2,3-dimethylphenolato(2-)-κO]-(9CI) (CA INDEX NAME)



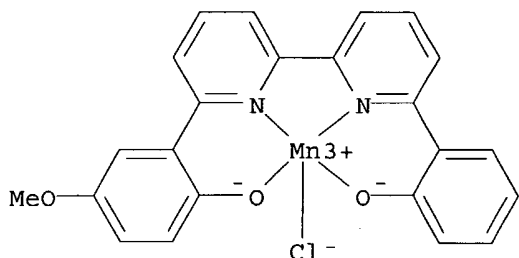
RN 259208-97-4 USPATFULL

CN Manganese, chloro[2-[6'-[2-(hydroxy-κO)-3-methoxyphenyl][2,2'-bipyridin]-6-yl-κN1,κN1']-4-methylphenolato(2-)-κO]-(9CI) (CA INDEX NAME)



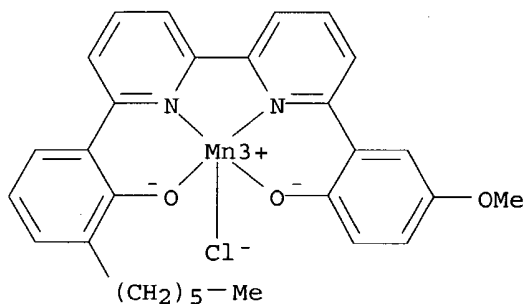
RN 259208-98-5 USPATFULL

CN Manganese, chloro[2-[6'-[2-(hydroxy-κO)phenyl][2,2'-bipyridin]-6-yl-κN1,κN1']-4-methoxyphenolato(2-)-κO]-(9CI) (CA INDEX NAME)



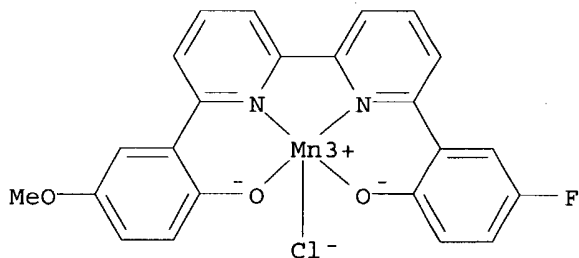
RN 259208-99-6 USPATFULL

CN Manganese, chloro[2-[6'-[3-hexyl-2-(hydroxy-κO)phenyl][2,2'-bipyridin]-6-yl-κN1,κN1']-4-methoxyphenolato(2-)-κO]-(9CI) (CA INDEX NAME)



RN 259209-00-2 USPATFULL

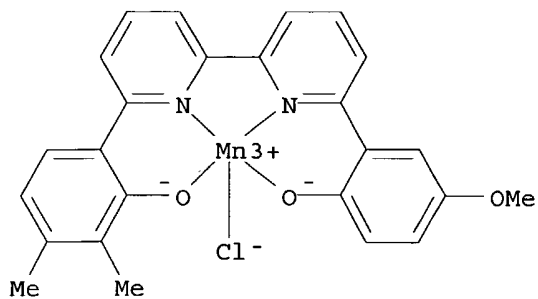
CN Manganese, chloro[4-fluoro-2-[6'-[2-(hydroxy-κO)-5-methoxyphenyl][2,2'-bipyridin]-6-yl-κN1,κN1']phenolato-κO]-(9CI) (CA INDEX NAME)



RN 259209-01-3 USPATFULL

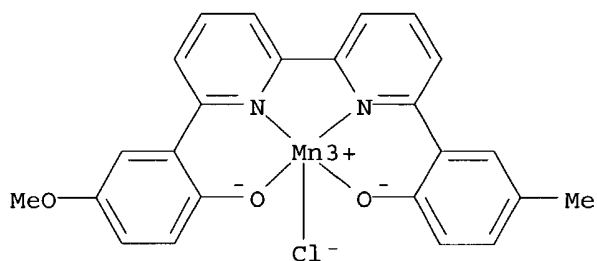
CN Manganese, chloro[6-[6'-[2-(hydroxy-κO)-5-methoxyphenyl][2,2'-bipyridin]-6-yl-κN1,κN1']-2,3-dimethylphenolato(2-)-κO]-(9CI) (CA INDEX NAME)





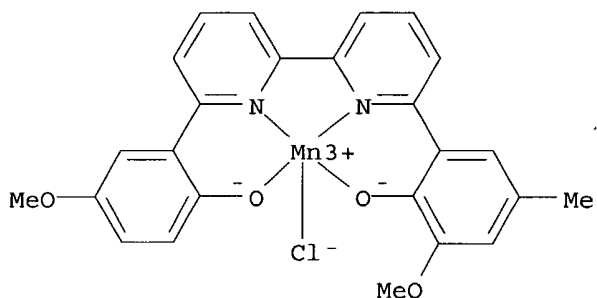
RN 259209-02-4 USPATFULL

CN Manganese, chloro[2-[6'-[2-(hydroxy-κO)-5-methoxyphenyl][2,2'-bipyridin]-6-yl-κN1,κN1']-4-methylphenolato(2-)-κO]-(9CI) (CA INDEX NAME)



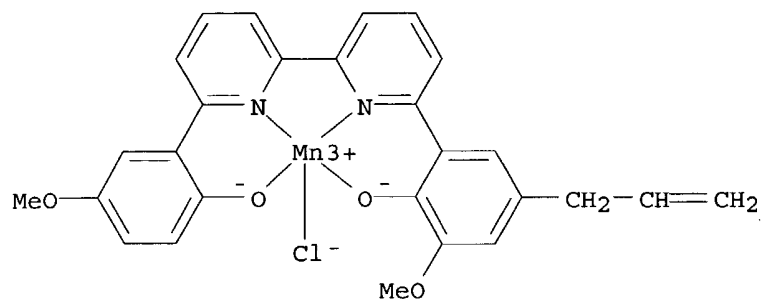
RN 259209-03-5 USPATFULL

CN Manganese, chloro[2-[6'-[2-(hydroxy-κO)-5-methoxyphenyl][2,2'-bipyridin]-6-yl-κN1,κN1']-6-methoxy-4-methylphenolato(2-)-κO]-(9CI) (CA INDEX NAME)



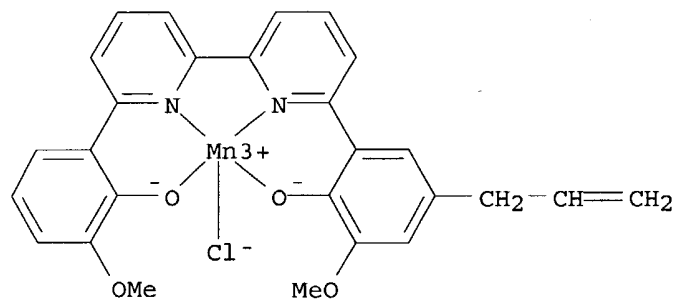
RN 259209-04-6 USPATFULL

CN Manganese, chloro[2-[6'-[2-(hydroxy-κO)-5-methoxyphenyl][2,2'-bipyridin]-6-yl-κN1,κN1']-6-methoxy-4-(2-propenyl)phenolato(2-)-κO]-(9CI) (CA INDEX NAME)



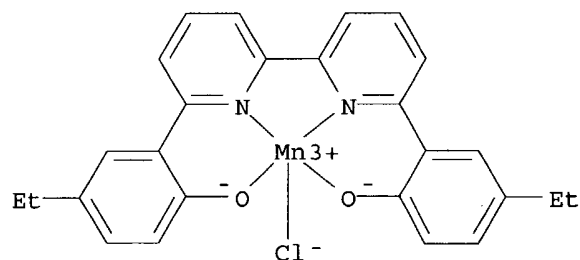
RN 259209-05-7 USPATFULL

CN Manganese, chloro[2-[6'-(2-(hydroxy-κO)-3-methoxyphenyl)] [2,2'-bipyridin]-6-yl-κN1,κN1']-6-methoxy-4-(2-propenyl)phenolato(2-)-κO]- (9CI) (CA INDEX NAME)



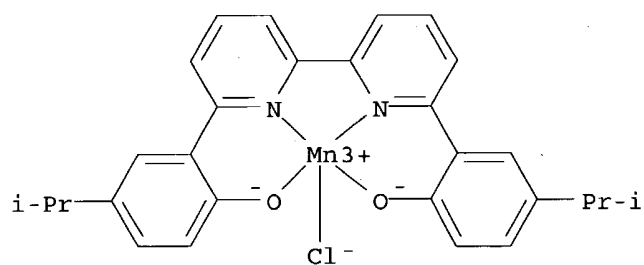
RN 259209-06-8 USPATFULL

CN Manganese, chloro[[2,2'-([2,2'-bipyridine]-6,6'-diyl-κN1,κN1')bis[4-ethylphenolato-κO]](2-)]- (9CI) (CA INDEX NAME)



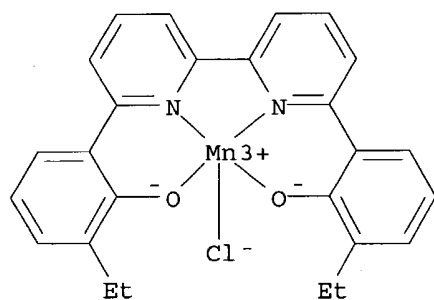
RN 259209-07-9 USPATFULL

CN Manganese, chloro[[2,2'-([2,2'-bipyridine]-6,6'-diyl-κN1,κN1')bis[4-(1-methylethyl)phenolato-κO]](2-)]- (9CI) (CA INDEX NAME)



RN 259209-08-0 USPATFULL

CN Manganese, chloro[[2,2'-([2,2'-bipyridine]-6,6'-diyl-  
κN1,κN1')bis[6-ethylphenolato-κO]](2-)]- (9CI) (CA  
INDEX NAME)



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